SOUTHERN PACIFIC COMPANY

PACIFIC LINES

TIME TABLE

FOR THE

TUCSON DIVISION

102

To Take Effect Sunday, June 14, 1931, at 12:01 A. M.

MOUNTAIN STANDARD TIME (105th MERIDIAN)

For the government and information of employes only.

F. L. BURCKHALTER, *General Manager.*	R. L. RUBY, *Superintendent of Transportation.*	A. E. SWEET, *Assistant General Manager.*	WM. WILSON, *Superintendent.*

WELLTON SUBDIVISION

EASTWARD

Time Table No. 102

June 14, 1931

Capacity of sidings in car lengths	SECOND CLASS							FIRST CLASS				Distance from San Francisco	STATIONS		
	416 Freight	414 Freight	432 Freight	412 Freight	436 Local Freight	424 Local Freight	410 Freight	12 Apache	102 Sunset	4 Golden State	104 Argonaut				
	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Mon. Wed. Fri.	Leave Mon. Wed. Fri.	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily				
Yard BKWOTYP	9.00PM	3.15PM	2.00PM	9.10AM	6.00AM	5.30AM	3.25AM	8.30PM	5.25PM	3.10AM	1.40AM	732.7	TO-R YUMA 4.8	D.T.	A.B.S.
258 P	9.15	3.30	2.15	9.25	6.15	5.45	3.40	8.40	5.35	3.20	1.50	737.5	EAST YARD 2.6		
67 P	9.20	3.35	2.20	9.30	6.25	5.50	3.45	f 8.44	5.38	3.23	**1.58**	740.1	ARABY 3.6		
72 P	9.26	3.41	2.30	9.36	6.35	5.56	3.51	8.48	5.42	3.27	2.03	743.7	FORTUNA 2.9		
67 P	9.31	3.46	2.40	9.41	6.45	6.01	3.56	f 8.52	5.46	3.31	**2.10**	746.6	BLAISDELL 6.9		
93 Middle P	9.46	4.01	2.55	9.56	7.00	6.16	4.11	f 9.04	5.58	3.43	2.22	753.5	TO DOME 1.7	D.T.	
84 Spur P								f				755.2	GRANITE SPUR 5.0		
70 Middle P	10.00	4.15	3.10	10.10	7.15	6.30	4.25	f 9.14	6.08	3.53	2.32	760.2	LIGURTA 7.0		
11 Spur												767.2	ADONDE 2.8		
72 WIP	10.25PM	4.40PM	3.35	10.35AM	7.45	7.00AM	4.50AM	s 9.28PM	6.20	4.05	f 2.45	770.0	TO WELLTON 5.7		
78 P			3.47		8.00				6.30	4.15	f 2.55	775.7	MING 2.0		
8 Spur											f	777.7	YANO 3.2		
79 P			3.57		8.30				6.36	4.21	f 3.02	780.9	ROLL 7.4		
34 Spur P											f	788.3	TYSON 4.9		
79 P			4.22		**9.08**				6.50	4.35	f 3.16	793.2	GROWLER 5.1		
												798.3	BURGER 4.2		
81 P			4.45		9.40				7.00	4.45	f 3.27	802.5	KOFA 5.2		
50 Spur P												807.7	OLANTON 5.0		
79 P			5.05		10.00				7.12	4.57	f 3.39	812.7	HORN 5.0		
48 Spur P												817.7	ATHEL 4.6		
80 WOP			5.35		10.30				7.24	5.10	f 3.51	822.3	TO HYDER 4.7		
50 Spur P												827.0	CAMEL 4.1		
78 P			5.55		10.50				7.35	5.21	f 4.02	831.1	MONTEZUMA 5.7		
78 P			6.05		11.00				7.42	5.28	f 4.09	836.8	PAPAGO 4.3		
81 WP			6.15		11.20AM				7.47	5.33	f 4.15	841.1	TO SADDLE 8.3		
79 P			7.25		1.00PM				**8.01**	5.48	f 4.30	849.4	HARQUA 1.6		
78 P			**7.35**		1.05				8.03	5.50	f 4.32	851.0	GILLESPIE 5.0		
42 Spur P			7.45		1.15				8.08	5.55	f 4.37	856.0	CRAG 5.3		
81 WP			8.00		1.30				8.14	6.01	f 4.44	861.3	ARLINGTON 4.4		
78 P			8.10		1.40				8.19	6.06	f 4.49	865.7	DIXIE 1.9		
12 Spur YP											f	867.6	HASSAYAMPA 2.6		
6 Spur											f	870.2	PALO VERDE 1.3		
78 P			**8.27**		1.55				**8.27**	6.14	f 4.57	871.5	CONGER 4.2		
81 WP			**9.03**		2.10				8.42	6.30	s 5.11	875.7	TO BUCKEYE 6.0		
78 P			9.18		2.25				**8.52**	6.40	f 5.19	881.7	LIBERTY 3.2		
2 Spur P											f	884.9	NORTON 4.8		
79 YP			9.33		2.40				9.01	6.49	f 5.29	889.7	LITCHFIELD 3.3		
97 P			9.41		2.50				9.05	**6.54**	f 5.33	893.0	CASHION 1.9		
53 P			9.46		2.55				9.08	6.57	f 5.36	894.9	COWDEN 0.8		
8 Spur											f	895.7	TOLLESON 0.6		
65 P											f	896.3	JEAN 1.8		
77 P			9.55		3.05				9.13	**7.03**	f 5.43	898.1	FOWLER 3.9		
57 P			10.05		3.15				9.18	7.08	f 5.48	902.0	CAMPO 2.0		
80 P			10.15		3.25				9.22	7.12	5.52	904.0	23rd AVE PHOENIX 1.5		
												905.5	CROSSING—AT&SF WYE 0.5		
Yard BKP									s 9.30PM	s 7.20AM	s 6.00AM	906.0	R PHOENIX 1.0	D.T.	
Yard BKWOTYP			10.30PM		3.45PM							907.0	TO-R PHOENIX YARD		
	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Mon. Wed .Fri	Arrive Mon. Wed. Fri.	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily		(174.3)		
	(1.25) 26.33	(1.25) 26.33	(8.30) 20.51	(1.25) 26.33	(9.45) 17.88	(1.30) 24.87	(1.25) 26.33	(0.58) 38.59	(4.05) 42.44	(4.10) 41.59	(4.20) 39.99		.........Time over district......... .... Average speed per hour.......		

ADDITIONAL FLAG STOPS TO RECEIVE PASSENGERS

Train	At	To (or beyond)
4	Any Station	El Paso
102	Any Station	El Paso

ADDITIONAL FLAG STOPS TO DISCHARGE PASSENGERS

Train	At	From (or beyond)
102	Buckeye	California points

RULES 72 and 73. Second class and extra trains may run ahead of first class trains Phoenix to Phoenix Yard.

WELLTON SUBDIVISION

WESTWARD

Time Table No. 102

June 14, 1931

						FIRST CLASS				THIRD CLASS		
		STATIONS			Distance from Phoenix	101 Sunset Arrive Daily	3 Golden State Arrive Daily	103 Argonaut Arrive Daily	11 Apache Arrive Daily	423 Local Freight Arrive Tues. Thur. Sat.	435 Local Freight Arrive Tues. Thur. Sat.	431 Freight Arrive Daily
A. B. S.	TO-R	YUMA	4.8	D.T.	174.3	s 10.40 AM	s 12.50 AM	s 2.15 AM	s 2.40 AM	11.55 AM	2.25 PM	12.25 AM
		EAST YARD	2.6		169.5	10.30	12.40	2.05	2.30	11.40	2.10	12.10
		ARABY	3.6		166.9	10.25	12.35	f 1.58	2.25	11.35	2.05	12.05 AM
		FORTUNA	2.9		163.3	10.19	12.29	1.54	2.18	11.25	1.55	11.55 PM
		BLAISDELL	6.9		160.4	10.15	12.25	f 1.50	2.10	11.15	1.45	11.45
	TO	DOME	1.7	D.T.	153.5	10.03	12.13	f 1.38	1.58	11.00	1.30	11.30
		GRANITE SPUR	5.0		151.8			f				
		LIGURTA	7.0		146.8	9.53	12.03 AM	f 1.28	1.48	10.40	1.10	11.15
		ADONDE	2.8		139.8							
	TO	WELLTON	5.7		137.0	9.40	f 11.50 PM	1.15 AM	1.35	10.20 AM	12.50	10.55
		MING	2.0		131.3	9.30	f 11.40		1.25		12.30	10.35
		YANO	3.2		129.3		f					
		ROLL	7.4		126.1	9.23	f 11.32		1.19		12.20 PM	10.25
		TYSON	4.9		118.7		f					
		GROWLER	5.1		113.8	9.08	f 11.16		1.05		11.55 AM	10.05
		BURGER	4.2		108.7							
		KOFA	5.2		104.5	8.57	f 11.04		12.55		11.35	9.45
		OLANTON	5.0		99.3							
		HORN	5.0		94.3	8.45	f 10.51		12.44		11.10	9.25
		ATHEL	4.6		89.3							
	TO	HYDER	4.7		84.7	8.34	s 10.37		12.34		10.45	9.05
		CAMEL	4.1		80.0							
		MONTEZUMA	5.7		75.9	8.23	f 10.25		12.24		10.15	8.45
		PAPAGO	4.3		70.2	8.16	f 10.18		12.18		10.00	8.35
	TO	SADDLE	8.3		65.9	8.10	f 10.11		12.13		9.50	8.25
		HARQUA	1.6		57.6	7.58	f 9.56		12.01 AM		9.25	8.01
		GILLESPIE	5.0		56.0	7.55	f 9.52		11.59 PM		9.15	7.35
		CRAG	5.3		51.0	7.49	f 9.45		11.54		9.05	7.20
		ARLINGTON	4.4		45.7	7.43	f 9.38		11.48		8.50	7.08
		DIXIE	1.9		41.3	7.37	f 9.31		11.43		8.30	6.58
		HASSAYAMPA	2.6		39.4		f					
		PALO VERDE	1.3		36.8		f					
		CONGER	4.2		35.5	7.30	f 9.23		11.37		8.10	6.48
	TO	BUCKEYE	6.0		31.3	7.22	s 9.03		11.29		8.00	6.40
		LIBERTY	3.2		25.3	7.12	f 8.52		11.18		7.45	6.28
		NORTON	4.8		22.1		f					
		LITCHFIELD	3.3		17.3	7.01	f 8.41		11.09		7.30	6.15
		CASHION	1.9		14.0	6.54	f 8.36		11.04		7.20	6.09
		COWDEN	0.8		12.1	6.48	f 8.33		11.01		7.15	6.05
		TOLLESON	0.6		11.3		f					
		JEAN	1.8		10.7		f					
		FOWLER	3.9		8.9	6.42	f 8.27		10.56		7.03	5.58
		CAMPO	2.0		5.0	6.37	f 8.22		10.52		6.50	5.50
		23rd AVE. PHOENIX	1.5		3.0	6.33	8.18		10.48		6.45	5.45
		CROSSING—AT&SF WYE	0.5		1.5							
	R	PHOENIX	1.0	D.T.	1.0	6.25 AM	8.10 PM		10.40 PM			
	TO-R	PHOENIX YARD			0.0						6.30 AM	5.30 PM
		(174.3)				Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Tues. Thur. Sat.	Leave Tues. Thur. Sat.	Leave Daily
		……… Time over district ………				(4.15)	(4.40)	(1.00)	(4.00)	(1.35)	(7.55)	(6.55)
		……… Average speed per hour ………				40.78	37.14	37.30	43.33	23.56	22.02	25.20

ADDITIONAL FLAG STOPS TO RECEIVE PASSENGERS

Train	At	To (or beyond)
101	Buckeye	California points

ADDITIONAL FLAG STOPS TO DISCHARGE PASSENGERS

Train	At	From (or beyond)
101	Any Station	El Paso
11	Any Station	Tempe
3	Any Station	Ming

PICACHO SUBDIVISION

EASTWARD

Time Table No. 102

June 14, 1931

Capacity of sidings in car lengths	SECOND CLASS								FIRST CLASS						Distance from San Francisco			STATIONS		
	416	434	414	412	422	128	438	410	12	102	108	36	4	104						
	Freight	Freight	Freight	Freight	Local Freight	Local Freight	Local Freight	Freight	Apache	Sunset	Tucson Motor	Winkelman Motor	Golden State	Argonaut						
	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Tues. Thur. Sat.	Leave Mon. Wed. Fri.	Leave Tues. Thurs. Sat.	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Lv Daily Ex. Sunday	Leave Daily	Leave Daily						
Yard BKP										9.40PM	6.00PM	7.55AM	7.45AM	6.15AM	906.0		R	PHOENIX	1.0	D. T.
Yard BKWOTYP		5.30PM				7.00AM	5.15AM			9.47	6.07	8.02	7.52	6.22	907.0		TO-R	PHOENIX YARD	4.1	
19 Spur P		5.45				7.10	5.30			9.54	6.14	8.09	7.59	6.29	911.1			KENDALL	0.7	
11 Spur P											f	f			911.8			CACTUS	2.6	
87 WYP		6.00				7.25	**5.55**			**10.00**	s 6.20	s8.19	8.05	s6.35	914.4		TO	TEMPE	0.9	
P		6.05				7.30	6.05			10.03	6.24PM	8.22	8.08	6.38	915.3			TEMPE JCT.	1.8	
8 Spur P		6.10				7.35	6.10			10.06		8.25	8.11	6.41	917.1			NORMAL JCT.	1.3	
5 Spur															918.4			FRANKENBURG	0.2	
63 Spur															918.6			TEMPE PUMPING PLANT	3.2	
Yard WYP		6.30				8.00	6.30			**10.14**		s8.37	8.19	s6.50	921.8		TO	MESA	1.8	
79 P		6.37				8.10AM	6.35			10.17		8.45AM	8.22	6.53	923.6			McQUEEN	1.8	
22 P		6.42					6.40							f	925.4			TREMAINE	0.7	
40 P		6.47					6.45			10.21			8.26	f6.57	926.1			FALFA	3.2	
76 P		**7.07**					**7.05**			10.27			8.32	s **7.05**	929.3		TO	CHANDLER	1.7	
P		7.15					7.15			10.30			8.35	7.08	931.0			POZO JCT.	3.3	
81 P		7.25					7.25			10.34	Via Maricopa		8.39	f7.13	934.3			SERAPE	4.7	
71 P		7.35					7.35			10.39			8.44	7.18	939.0			SANTAN	4.2	
72 P		7.45					7.45			10.44			8.49	f7.23	943.2			DOCK	4.9	
34 P		7.55					7.55			10.50			8.55	f7.30	948.1			OLBERG	5.1	
79 P		**8.05**					8.05			10.56			9.01	7.36	953.2			BLACKWATER	5.0	
81 YP		8.20					8.15			11.02			9.07	f7.42	958.2			POSTON	3.8	
80 WP		**8.43**					8.40			11.11			9.17	s7.52	962.0	A. B. S.	TO	COOLIDGE	4.4	
34 P		9.05					9.00			11.17			9.23	f7.58	966.4			RANDOLPH	5.0	
72 P		9.25					**9.29**			11.23			**9.29**	f8.05	971.4			TOPAZ	4.0	
4 Spur P														f	975.4			PEAK	5.2	
102 WOYP	10.00PM	9.45	4.10PM	10.50AM	10.20AM		9.50	4.40AM	2.10AM	11.35	8.18PM		9.41	f8.17	980.6 937.5		TO	PICACHO	3.2	
73 P	10.25	10.10	4.35	11.18	10.45		10.15	5.08	2.17	11.41	f 8.25		9.47	8.24	940.7			OCATILLA	3.5	
94 P	10.37	10.23	4.48	11.30	11.00		10.28	5.20	f 2.23	11.46	f 8.31		9.52	8.30	944.2			WYMOLA	3.7	
73 P	10.49	10.35	5.00	**11.40**	11.15		10.40	5.30	2.28	11.51	f 8.37		9.57	8.35	947.9			MONTROSE	3.5	
69 WP	10.59	10.45	5.15	11.50	**11.30**		10.50	5.40	f 2.34	11.56	f 8.43		10.02	f **8.40**	951.4		TO	RED ROCK	2.9	
72 P	11.07	10.53	5.22	11.57AM	11.40		11.00	5.47	2.37	11.59PM	f 8.47		10.05	8.43	954.3			AVRA	4.1	
67 P	11.19	11.05	**5.35**	12.08PM	11.55AM		11.15	5.58	f 2.43	12.04AM	f 8.53		10.10	8.48	958.4			NAVISKA	3.8	
71 P	11.29	11.14	5.44	12.18	12.05PM		11.25	6.08	f 2.48	12.08	f 8.59		10.14	f8.53	962.2			MARANA	2.4	
100 P	11.36	11.21	5.50	12.24	12.10		11.30	6.14	2.51	12.11	f 9.03		10.17	**8.56**	964.6			ROSKRUGE	2.3	
165 WP	11.48	11.33	6.05	12.40	12.20		11.50AM	6.30	f 2.54	12.14	f 9.07		10.20	f9.00	966.9		TO	RILLITO	3.0	
100 P	11.58PM	11.43	6.15	12.50	12.31		12.05PM	6.40	2.58	12.18	f 9.12		10.23	9.04	969.9			SABINO	2.2	
67 P	12.06AM	11.51	6.24	12.59	12.40		12.15	6.49	f 3.02	12.21	f 9.16		**10.26**	9.07	972.1			CORTARO	2.6	
100 P	12.15	11.59PM	6.31	1.07	12.48		12.25	6.57	3.06	12.24	f 9.20		10.29	9.10	974.7			KINO	2.7	
67 P	**12.27**	12.07AM	6.37	1.15	1.00		12.35	7.05	f 3.10	**12.27**	f 9.25		10.32	f9.20	977.4			JAYNES	3.8	
P	12.40	12.15	6.45	1.25	1.10		12.45	7.15	f 3.17	12.32	f 9.32		10.37	9.27	981.2			STOCKHAM	1.6	D. T.
P															982.8			SOUTH LINE JCT.	1.1	
Yard BKWFITYP	1.00AM	12.30AM	7.00PM	1.40PM	1.30PM		1.00PM	7.30AM	s 3.25AM	s 12.40AM	s 9.40PM		s 10.45AM	s 9.35AM	983.9		TO-R	TUCSON		
	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Tues. Thur. Sat.	Arrive Mon. Wed. Fri.	Arrive Tues. Thurs. Sat.	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily Ex. Sunday	Arrive Daily	Arrive Daily				(121.0)		
	(3.00)	(7.00)	(2.50)	(2.50)	(3.10)	(1.10)	(7.45)	(2.50)	(1.15)	(3.00)	(1.46)	(0.50)	(3.00)	(3.20)				Time over district		
	15.47	17.14	16.38	16.38	14.65	14.23	15.48	16.38	37.12	40.33	32.66	21.12	40.33	36.30				Average speed per hour		

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE PASSENGERS

Train	At	Receive or Discharge	To (or beyond)	From (or beyond)
4 & 102	Any Station	Receive	El Paso	
4 & 102	Tempe, Mesa and Chandler	Discharge		California points
104	Any Station	Discharge		Peak

PICACHO SUBDIVISION

WESTWARD

Time Table No. 102

June 14, 1931

						FIRST CLASS						THIRD CLASS			
					Distance from Tucson	101	107	35	3	103	11	421	127	437	433
						Sunset	Phoenix Motor	Phoenix Motor	Golden State	Argonaut	Apache	Local Freight	Local Freight	Local Freight	Freight
		STATIONS				Arrive Daily	Arrive Daily	Arrive Daily Ex. Sunday	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Mon. Wed. Fri.	Arrive Tues. Thur. Sat.	Arrive Mon. Wed. Fri.	Arrive Daily
	R	PHOENIX	D.T.		121.0	s 6.15AM	s 12.01PM	s 4.20PM	s 7.55PM		s 10.20PM		2.40PM	3.50PM	11.20PM
	TO-R	PHOENIX YARD		1.0	120.0	6.08	11.53AM	4.13	7.48		10.13		2.25	3.35	11.05
		KENDALL		4.1	115.9	6.01	11.46	4.06	7.41		10.06				
		CACTUS		0.7	115.2		f	f					2.10	3.15	10.50
	TO	TEMPE		2.6	112.6	5.55	s 11.40	s 4.00	7.35		s 10.00		1.55	3.05	10.35
		TEMPE JCT.		0.9	111.7	5.52	11.36AM	3.56	7.32		9.55		1.50	3.00	10.30
		NORMAL JCT.		1.8	109.9	5.49		3.53	7.29		9.52				
		FRANKENBURG		1.3	108.6										
		TEMPE PUMPING PLANT		0.2	108.4								1.35	2.45	10.14
	TO	MESA		3.2	105.2	5.41		s 3.45	7.21		s 9.44		1.15PM	2.30	9.39
		McQUEEN		1.8	103.4	5.38		3.40PM	7.17		9.39			2.25	9.25
		TREMAINE		1.8	101.6						f			2.20	9.20
		FALFA		0.7	100.9	5.34			7.12		f 9.34			2.10	9.10
	TO	CHANDLER		3.2	97.7	5.29	Via Maricopa		7.07		s 9.29			2.00	8.55
		POZO JCT.		1.7	96.0	5.25			7 03		9.24			1.50	8.45
		SERAPE		3.3	92.7	5.21			6.59		f 9.20			1.40	8.35
		SANTAN		4.7	88.0	5.16			6.53		9.14			1.30	8.25
		DOCK		4.2	83.8	5.11			6.47		f 9.09			1.20	8.15
		OLBERG		4.9	78.9	5.05			6.41		f 9.02			1.10	8.05
		BLACKWATER		5.1	73.8	4.59			6.35		8.55			1.00	7.45
		POSTON		5.0	68.8	4.53			6.29		f 8.49			12.50	7.35
A. B. S.	TO	COOLIDGE		3.8	65.0	4.48			6.24		s 8.43			12.35	7.10
		RANDOLPH		4.4	60.6	4.41			6.16		f 8.33			12.25	7.00
		TOPAZ		5.0	55.6	4.36			6.11		f 8.26				
		PEAK		4.0	51.6						f				
	TO	PICACHO		5.2	46.4	4.25	f 9.38AM		6.00	8.05PM	f 8.15	9.25AM		12.10PM	6.40
		OCATILLA		3.2	43.2	4.20	9.30		5.55	7.59	8.09	9.10		11.59AM	6.21
		WYMOLA		3.5	39.7	4.16	f 9.25		5.51	7.54	f 8.04	9.00		11.50	6.13
		MONTROSE		3.7	36.0	4.12	9.20		5.47	7.49	7.59	8.50		11.40	6.05
	TO	RED ROCK		3.5	32.5	4.08	f 9.15		5.43	7.44	f 7.54	8.40		11.30	5.57
		AVRA		2.9	29.6	4.05	9.11		5.40	7.41	7.51	8.25		11.20	5.50
		NAVISKA		4.1	25.5	4.00	f 9.05		5.35	7.36	f 7.46	8.15		11.10	5.35
		MARANA		3.8	21.7	3.56	f 9.00		5.31	7.32	f 7.42	8.05		11.00	5.20
		ROSKRUGE		2.4	19.3	3.53	8.56		5.28	7.29	7.39	8.00		10.50	5.15
	TO	RILLITO		2.3	17.0	3.50	f 8.49		5.25	7.26	f 7.36	7.55		10.45	5.10
		SABINO		3.0	14.0	3.47	8.44		5.22	7.22	7.32	7.47		10.35	5.03
		CORTARO		2.2	11.8	3.44	f 8.41		5.19	7.19	f 7.29	7.42		10.26	4.58
		KINO		2.6	9.2	3.41	8.37		5.16	7.16	7.26	7.36		10.15	4.53
		JAYNES		2.7	6.5	3.38	f 8.34		5.13	7.13	f 7.23	7.30		10.05	4.48
		STOCKHAM	D.T.	3.8	2.7	3.33	f 8.28		5.08	7.08	f 7.18	7.20		9.50	4.40
		SOUTH LINE JCT.		1.6	1.1										
	TO-R	TUCSON		1.1	0.0	3.25AM	8.20AM		5.00PM	7.00PM	7.10PM	7.10AM		9.35AM	4.30PM
		(121.0)				Leave Daily	Leave Daily	Leave Daily Ex. Sunday	Leave Daily	Leave Daily	Leave Daily	Leave Mon. Wed. Fri.	Leave Tues. Thur. Sat.	Leave Mon. Wed. Fri.	Leave Daily
		........Time over district..........				(2.50)	(1.43)	(0.40)	(2.55)	(1.05)	(3.10)	(2.15)	(1.25)	(6.15)	(6.50)
		........Average speed per hour........				42.71	32.45	26.40	41.49	42.83	38.21	20.62	11.72	19.20	17.56

Rules 72 and 73. Third class and extra trains may run ahead of No. 35 from McQueen to Mesa, and ahead of No. 107 from Tempe Jct. to Tempe.

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE PASSENGERS

Train	At	Receive or Discharge	To (or beyond)	From (or beyond)
101 & 3	Any Station	Discharge		El Paso
103	Any Station	Discharge		Polvo
101 & 3	Chandler, Mesa and Tempe	Receive	California points	
103	Any Station	Receive	Gila Line points	

WELLTON SUBDIVISION

EASTWARD

WESTWARD

Capacity of sidings in car lengths	SECOND CLASS					FIRST CLASS	Distance from San Francisco		Time Table No. 102 June 14, 1931	Distance from Gila	FIRST CLASS	THIRD CLASS
	416 Freight	414 Freight	412 Freight	424 Local Freight	410 Freight	12 Apache					103 Argonaut	423 Local Freight
	Leave Daily	Leave Daily	Leave Daily	Leave Mon. Wed. Fri.	Leave Daily	Leave Daily			STATIONS		Arrive Daily	Arrive Tues. Thur. Sat.
72 WIP	10.25 PM	4.40 PM	10.35 AM	7.00 AM	4.50 AM	9.28 PM	770.0	A.B.S.	TO WELLTON D.T. 3.1	85.7	f 1.15 AM	10.20 AM
73 P	10.33	4.48	10.43	7.10	4.58	f 9.35	773.1		ASHER 3.3	82.6	f 1.07	9.50
67 P	10.40	4.55	10.50	7.20	5.05	f 9.41	776.4		TAONA 3.7	79.3	f 1.00	9.40
73 P	10.47	5.02	10.57	7.30	5.12	f 9.47	780.1		GAEL 3.7	75.6	f 12.54	9.30
67 P	10.54	5.09	11.04	7.40	5.19	f 9.53	783.8		COLFRED 4.8	71.9	f 12.48	9.20
69 P	11.05	5.20	11.15	7.50	5.30	f 9.59	788.6		PEMBROKE 4.0	67.1	f 12.39	9.10
W88 E70 P	11.20	5.35	11.30	8.20	5.45	f 10.07	792.6		TO MOHAWK 3.3	63.1	f 12.32	9.00
67 P	11.27	5.42	11.37	8.30	5.52	10.13	795.9		KIM 4.6	59.8	12.24	8.50
67 P	11.34	5.49	11.44	8.40	5.59	f 10.19	800.5		STOVAL 5.7	55.2	f 12.17	8.40
92 P	11.44	5.59	11.54 AM	8.55	6.09	f 10.28	806.2		MUSINA 5.7	49.5	f 12.08 AM	8.30
67 WP	**11.58** PM	6.20	12.15 PM	9.20	6.30	f 10.37	811.9		AZTEC 3.9	43.8	f **11.58** PM	8.20
100 P	12.15 AM	6.30	12.25	9.30	6.40	10.42	815.8		MUGGINS 3.9	39.9	11.50	7.45
67 P	12.25	6.40	12.35	9.40	6.50	f 10.48	819.7		STANWIX 2.3	36.0	f 11.45	7.35
72 P	12.32	6.47	12.42	9.50	6.57	10.51	822.0		LAVA 2.9	33.7	11.41	7.25
35 Spur							824.9		DELOSA 1.2	30.8		
W70 E82 WOP	12.50	7.05	1.00	10.15	**7.15**	s 11.05	826.1		TO SENTINEL 3.5	29.6	s 11.35	**7.15**
76 P	12.58	7.13	1.08	10.25	7.23	11.10	829.6		TRIGO 3.5	26.1	11.22	7.00
67 P	1.05	7.20	1.15	10.35	7.30	f **11.15**	833.1		TARTRON 6.8	22.6	f **11.15**	6.50
67 P	1.17	7.32	1.27	10.50	7.42	f 11.25	839.9		PIEDRA 5.6	15.8	f 11.05	6.35
68 P	1.27	7.42	1.37	11.05	7.52	f 11.33	845.5		THEBA 4.8	10.2	f 10.56	6.25
67 P	1.35	7.50	1.45	11.15	8.00	f 11.40	850.3		SMURR 5.4	5.4	f 10.50	6.15
Yard BKWOTP	1.50 AM	8.05 PM	2.00 PM	11.30 AM	8.15 AM	s 11.50 PM	855.7		TO-R GILA	0.0	10.40 PM	6.00 AM
	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Mon. Wed. Fri.	Arrive Daily	Arrive Daily			(85.7)		Leave Daily	Leave Tues. Thur. Sat.
	(3.25) 25.08	(3.25) 25.08	(3.25) 25.08	(4.30) 19.04	(3.25) 25.08	(2.22) 36.21			..........Time over district............ ....Average speed per hour........		(2.35) 33.17	(4.20) 19.78

EASTWARD

PICACHO SUBDIVISION

WESTWARD

Capacity of sidings in car lengths	FIRST CLASS	Distance from San Francisco	Time Table No. 102 June 14, 1931 Maricopa Branch	Distance from Maricopa	FIRST CLASS
	108 Tucson Motor				107 Phoenix Motor
	Leave Daily		STATIONS		Arrive Daily
P	6.24 PM	915.3	TEMPE JCT. 2.4	25.8	11.36 AM
21	f 6.28	917.7	PETERSON 2.4	23.4	f 11.32
53 P	f 6.32	920.1	HELENA 2.9	21.0	f 11.27
YP	f 6.36	923.0	WEST CHANDLER 5.5	18.1	f 11.22
58	f 6.44	928.5	ALICIA 3.2	12.6	f 11.14
4 Spur		931.7	RIVERA 1.6	9.4	
22 P	f 6.52	933.3	SACATE 7.8	7.8	f 11.07
150 WYP	s 7.05 PM	941.1	TO-R MARICOPA	0.0	10.55 AM
	Arrive Daily		(25.8)		Leave Daily
	(0.41) 37.76		..........Time over district.......... ....Average speed per hour..........		(0.41) 37.76

EASTWARD

WELLTON SUBDIVISION

WESTWARD

Capacity of sidings in car lengths	Distance from San Francisco	Time Table No. 102 June 14, 1931 Litchfield Branch	Distance from Litchfield Park
		STATIONS	
79 YP	889.7	LITCHFIELD 3.7	5.0
	893.4	BARN 1.3	1.3
34 22 Spur	894.7	LITCHFIELD PARK	0.0
		(5.0)	

PICACHO SUBDIVISION

EASTWARD — WESTWARD

Capacity of sidings in car lengths	SECOND CLASS					FIRST CLASS		Distance from San Francisco		Time Table No. 102 June 14, 1931 STATIONS	Distance from Picacho	FIRST CLASS		THIRD CLASS
	416	414	412	422	410	108	12					107	103	421
	Freight	Freight	Freight	Local Freight	Freight	Tucson Motor	Apache					Phoenix Motor	Argonaut	Local Freight
	Leave Daily	Leave Daily	Leave Daily	Leave Tues. Thur. Sat.	Leave Daily	Leave Daily	Leave Daily					Arrive Daily	Arrive Daily	Arrive Mon. Wed. Fri.
Yard BKWOTP	6.15 PM	12.30 PM	7.10 AM	5.00 AM	1.00 AM		12.01 AM	855.7	TO-R	GILA 3.4	81.8		s 10.30 PM	1.40 PM
67 P	6.27	12.42	7.22	5.12	1.12		12.07	859.1		COLEDON 6.0	78.4		10.21	1.25
70 P	6.50	**1.05**	7.45	5.35	1.35		f 12.17	865.1		BOSQUE 4.0	72.4		f 10.12	**1.05**
67 P	7.06	1.21	8.01	5.50	1.51		f 12.24	869.1		OCAPOS 2.7	68.4		f 10.05	12.40
76 P	7.18	1.33	8.13	6.11	2.03		12.29	871.8		SHAWMUT 2.8	65.7		9.59	12.30
73 YP	7.35	1.50	8.30	6.35	2.20		f 12.35	874.6	TO	ESTRELLA 4.8	62.9		f 9.54	12.20
68 P	7.43	1.58	8.38	6.43	2.28		f 12.41	879.4		BUCHAN 4.3	58.1		f 9.46	12.05 PM
67 WP	7.50	2.05	8.45	6.51	2.35		f 12.48	883.7		MOBILE 4.7	53.8		f 9.39	11.50 AM
67 P	7.58	2.13	8.53	7.01	2.43		f 12.54	888.4		ENID 4.4	49.1		f 9.31	11.40
67 P	8.05	2.20	9.00	7.15	2.50		12.59	892.8	A.B.S.	HEATON 5.0	44.7		9.24	11.30
150 WYP	8.25	2.40	9.20	7.45	3.10	7.10 PM	s 1.15	897.8	TO	MARICOPA 5.1	39.7	s 10.50 AM	s 9.15	11.15
67 P	8.40	2.55	9.35	8.05	3.25	f 7.21	f 1.22	902.9		LIRIM 4.8	34.6	f 10.40	f 9.02	10.50
72 P	**8.55**	3.08	9.47	8.20	3.38	f 7.29	f 1.28	907.7		BON 4.8	29.8	f 10.34	f **8.55**	10.40
67 P	9.07	3.19	9.57	8.30	3.49	f 7.36	f 1.34	912.5		NUNEZ 6.3	25.0	f 10.27	f 8.47	10.30
94 WP	9.20	3.32	**10.15**	9.00	4.02	s 7.47	s 1.45	918.8	TO	CASA GRANDE 4.9	18.7	s **10.15**	s 8.38	**10.15**
67 P	9.30	3.42	10.25	9.15	4.12	f 7.55	f 1.51	923.7		ARIZOLA 4.7	13.8	f 10.03	f 8.27	9.55
68 P	9.40	3.52	10.34	9.30	4.22	f 8.03	f 1.58	928.4		TOLTEC 4.7	9.1	f 9.56	f 8.20	9.45
77 P	9.50	4.02	10.43	**9.47**	4.32	f **8.12**	f 2.05	933.1		ELOY 4.4	4.4	f **9.47**	f **8.12**	9.35
102 WOYP	10.00 PM	4.10 PM	10.50 AM	10.20 AM	4.40 AM	f 8.18 PM	f 2.10 AM	937.5	TO	PICACHO 81.8	0.0	9.38 AM	8.05 PM	9.25 AM
	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Tues. Thur. Sat.	Arrive Daily	Arrive Daily	Arrive Daily					Leave Daily	Leave Daily	Leave Mon. Wed. Fri.
	(3.45) 21.81	(3.40) 22.31	(3.40) 22.31	(5.20) 15.34	(3.40) 22.31	(1.08) 35.03	(2.09) 38.03			Time over district Average speed per hour		(1.12) 33.08	(2.25) 33.85	(4.15) 19.25

EASTWARD — PICACHO SUBDIVISION — WESTWARD

Capacity of sidings in car lengths	Distance from San Francisco		Time Table No. 102 June 14, 1931 Tempe Branch STATIONS	Distance from Normal Jct.
87 WYP	914.4	TO	TEMPE 1.0	2.1
	915.4		P. & E. JCT. 1.1	1.1
	916.5		NORMAL JCT.	0.0
			(2.1)	

Capacity of sidings in car lengths	Distance from San Francisco		Time Table No. 102 June 14, 1931 Mesa Branch STATIONS	Distance from Mesa
	915.4		P. & E. JCT. 0.7	7.6
15	916.1		CREAMERY 5.0	6.9
31	921.1		NORTH MESA 1.9	1.9
Yard WYP	923.0	TO	MESA	0.0
			(7.6)	

EASTWARD — PICACHO SUBDIVISION — WESTWARD

Capacity of sidings in car lengths	Distance from San Francisco	Time Table No. 102 June 14, 1931 Casaba Branch STATIONS	Distance from Casaba
P	931.0	POZO JCT. 0.7	4.5
15 Spur	931.7	POZO 2.5	3.8
13 Spur	934.2	NARANJA 0.4	1.3
27	934.6	GOODYEAR 0.9	0.9
16 Spur Y	935.5	CASABA	0.0
		(4.5)	

Capacity of sidings in car lengths	Distance from San Francisco	Time Table No. 102 June 14, 1931 Florence Branch STATIONS	Distance from Florence Jct.
81 YP	958.2	POSTON 3.8	6.5
3 Spur P	962.0	PARSONS 2.7	2.7
P	964.7	FLORENCE JCT.	0.0
		(6.5)	

Trains and engines must move between Creamery and North Mesa expecting to find main track blocked with cars, unless otherwise instructed by train order.

EASTWARD

BOWIE SUBDIVISION

WESTWARD

Time Table No. 102

June 14, 1931

Capacity of sidings in car lengths	SECOND CLASS								FIRST CLASS				Distance from San Francisco			STATIONS	Distance from Lordsburg	FIRST CLASS		THIRD CLASS
	326 Freight Leave Daily	414 Freight Leave Daily	412 Freight Leave Daily	312 Freight Leave Daily	418 Local Freight Leave Mon. Wed. Fri.	190 Local Freight Leave Mon. Wed. Fri.	310 Freight Leave Daily	410 Freight Leave Daily	4 Golden State Leave Daily	104 Argonaut Leave Daily	12 Apache Leave Daily	102 Sunset Leave Daily						11 Apache Arrive Daily	101 Sunset Arrive Daily	417 Local Freight Arrive Tues. Thur. Sat.
Yard BKWFTYP	4.25PM	3.50PM	8.00AM	7.00AM	6.40AM	6.15AM	1.00AM	12.01AM	11.00AM	9.50AM	3.40AM	12.55AM	983.9	Track No. 2	TO-R	TUCSON		See Rio Grande Division Time Table.		
													984.7			0.8 T. N. R. R. JCT.				
2 Spur	4.38	4.03	8.13	7.13	6.53	6.30	1.13	12.14	11.10	f10.00	3.50	1.05	987.4			2.7 POLVO				
66 P	4.46	4.11	8.21	7.21	7.02	6.40	1.21	12.22	11.14	f10.04	3.54	1.09	990.7			3.3 WILMOT				
66 P	4.55	4.20	8.30	7.30	7.12	6.50	1.30	12.31	11.19	10.09	3.59	1.14	993.8			3.1 RANKIN				
67 WP	5.07	4.32	8.42	7.42	7.25	7.10	1.42	12.43	11.26	f10.17	4.06	1.21	998.6			4.8 ESMOND				
66 P	5.20	4.45	8.55	7.55	7.40	7.30	1.55	12.56	11.33	f10.25	4.13	1.28	1003.3			4.7 VAIL				
66 P	5.33	4.58	9.08	8.08	7.55	7.45	2.08	1.09	11.42	f10.35	4.22	1.37	1008.5			5.2 IRENE				
84 WP	5.56	5.23	9.33	8.31	8.20	8.10	2.31	1.32	11.49	f10.43	4.29	1.44	1012.6			4.1 PANTANO				
66 P	6.06	5.33	9.43	8.41	8.30	8.20	2.41	1.42	11.55AM	f10.50	4.35	1.50	1016.1			3.5 BUELL				
66 P	6.16	5.43	9.53	8.51	8.40	8.30	2.51	**1.57**	12.02PM	f10.57	4.42	**1.57**	1019.7			3.6 AMOLE				
E94 W81 CIYP	6.30PM	5.57	10.07	9.05AM	8.55	8.45AM	3.05AM	2.12	12.10PM	f11.06	4.50AM	**2.07**	1023.6	A. B. S.	TO-R	3.9 MESCAL	124.7	f 5.45PM	**2.07**AM	12.50PM
81 P		6.06	10.16		9.05			2.21		11.12		2.13	1028.2			4.6 CHAMISO	120.1	5.37	1.58	12.30
E125 W74 BKW-OYP		6.28	10.38		9.30			2.43		s11.25		s 2.24	1032.6		TO	4.4 BENSON	115.7	s 5.27	s 1.48	12.10PM
66 P		6.35	10.45		9.37			2.50		**11.32**		2.30	1035.8			3.2 FENNER	112.5	5.15	1.37	**11.32**AM
87 P		6.51	**11.01**		9.53			3.06		11.39		2.36	1038.5			2.7 CURVO	109.8	5.09	1.31	**11.01**
78 WP		7.06	11.16		10.08			3.21		f11.46		2.42	1041.0			2.5 SIBYL	107.3	f 5.04	1.26	10.45
66 P		7.16	11.26		10.18			3.31		11.52		2.47	1043.9			2.9 TULLY	104.4	4.59	1.21	10.35
66 P		7.27	11.37		10.29			3.42		f11.59AM		2.53	1047.3			3.4 OCHOA	101.0	f 4.54	1.15	10.20
66 P		7.38	11.48		10.40			3.53		f12.06PM		2.59	1050.8			3.5 LANCHA	97.5	f 4.49	1.09	10.10
N69 S68 YP		7.46	11.56AM		10.50			4.01		f12.13		3.04	1053.9		TO	3.1 DRAGOON	94.4	f 4.44	1.04	10.00
86 P		7.59	12.09PM		11.05			4.14		f12.19		3.10	1058.3			4.4 MANZORO	90.0	f 4.36	12.56	9.45
94 P		8.08	12.18		11.25			4.23		s12.28		3.16	1063.9		TO	5.6 COCHISE	84.4	f 4.27	12.48	9.30
66 P		8.17	12.27		11.40AM			4.32		12.36		3.22	1069.6			5.7 HADO	78.7	4.19	12.41	9.00
70 WP		8.35	**12.47**		12.05PM			4.50		s**12.47**		3.28	1074.7		TO	5.1 WILLCOX	73.6	s 4.12	12.34	8.50
64 P		8.47	1.00		12.15			5.02		12.54		3.34	1079.4			4.7 DRURY	68.9	4.04	12.27	8.10
105 YP		9.01	1.14		12.30			5.16		f12.59		3.38	1082.6			3.2 RASO	65.7	f 3.59	12.23	8.00
68 P		9.11	1.24		12.40			5.26		1.06		3.45	1087.7			5.1 ALRICH	60.6	3.50	12.14	7.45
66 P		9.17	1.30		12.50			5.32		f 1.11		3.49	1091.0			3.3 LUZENA	57.3	f 3.43	12.08	7.35
66 P		9.24	1.37		1.00			5.39		1.16		3.54	1094.5			3.5 CHOLLA	53.8	3.37	12.02AM	7.20
E116 W121 BKW-FYP		10.00	2.10		1.15PM			6.15		s 1.35		s 4.10	1098.4		TO-R	3.9 BOWIE	49.9	s 3.30	s11.55PM	7.00AM
66 P		10.13	2.23					6.28		1.42		4.16	1102.6			4.2 HOLT	45.7	3.11	11.36	
66 P		10.21	2.31					6.36		f 1.47		4.21	1106.6			4.0 OLGA	41.7	f 3.06	11.31	
66 P		10.29	2.39					6.44		1.52		4.26	1110.2			3.6 KARRO	38.1	3.01	11.26	
66 BKW-FYP		10.37	**2.56**					6.52		s 1.58		4.31	1114.2		TO	4.0 SAN SIMON	34.1	f **2.56**	f11.21	
66 P		10.56	3.15					7.11		f 2.05		4.36	1117.6			3.4 BAWTRY	30.7	f 2.51	11.16	
77 P		**11.10**	3.29					7.25		2.13		4.44	1121.8			4.2 VANAR	26.5	2.45	**11.10**	
74 P		11.24	3.41					7.39		2.21		4.51	1125.0			3.2 CAVOT	23.3	2.40	11.05	
No. 1-74 No. 2-68 YP		11.45	4.00					8.00		f **2.32**		5.01	1128.9		TO	3.9 STEINS	19.4	f **2.32**	10.57	
65 P		11.58PM	4.13					8.13		2.42		5.06	1132.7			3.8 MONDEL	15.6	2.23	10.51	
65 P		12.06AM	4.21					8.21		2.49		5.11	1136.5			3.8 CONRAD	11.8	2.17	10.46	
66 P		12.18	4.33					8.33		f 2.57		5.17	1140.8			4.3 GARY	7.5	f 2.11	10.40	
66 P		12.26	4.41					8.41		3.04		5.22	1143.9			3.1 PYRA	4.4	2.06	10.36	
													1147.8			3.9 A. & N. M. JCT.	0.5			
Yard BKWFTYP		12.40AM	4.55PM					8.55AM		s 3.12PM		s 5.30AM	1148.3		TO-R	0.5 LORDSBURG	0.0	1.58PM	10.29PM	
	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Mon. Wed. Fri.	Arrive Mon. Wed. Fri.	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily				(164.4)		Leave Daily	Leave Daily	Leave Tues. Thur. Sat.
	(2.05) 19.06	(8.50) 18.61	(8.55) 18.44	(2.05) 19.06	(6.35) 17.39	(2.30) 15.88	(2.05) 19.06	(8.54) 18.47	(1.10 34.03)	(5.22) 30.63	(1.10) 34.03	(4.35) 35.87				..............Time over district.................... ....Average speed per hour................		(3.47) 32.96	(3.38) 34.32	(5.50) 12.82

ADDITIONAL FLAG STOPS TO RECEIVE OR DISCHARGE PASSENGERS

Train	At	Receive or Discharge	To (or beyond)	From (or beyond)
4 & 102	Any Station	Receive	El Paso	
12	Any Station	Receive	Mescal	
101	Any Station	Discharge		El Paso
101	Willcox	Receive	Points scheduled to stop	
102	Willcox	Discharge		Tucson
102	Willcox	Receive	Lordsburg, where scheduled to stop	

PICACHO SUBDIVISION

Capacity of sidings in car lengths		EASTWARD SECOND CLASS	EASTWARD SECOND CLASS	EASTWARD FIRST CLASS	Distance from San Francisco		Time Table No. 102 June 14, 1931 Christmas Branch	Distance from Christmas	WESTWARD FIRST CLASS	WESTWARD THIRD CLASS	WESTWARD THIRD CLASS
		128	130	36					35	131	127
		Local Freight	Mixed	Winkelman Motor					Phoenix Motor	Mixed	Local Freight
		Leave. Mon. Wed. Fri.	Leave Tues. Thur. Sat.	Leave Daily Ex. Sunday			STATIONS		Arrive Daily Ex. Sunday	Arrive Tues. Thur. Sat.	Arrive Tues. Thur. Sat.
79	P	8.10AM		8.45AM	923.6		McQUEEN 3.4	86.9	3.40PM		1.15PM
46		8.35		s 8.55	927.0	TO	GILBERT 5.0	83.5	s 3.30		1.00
27	P	9.06		f 9.06	932.0		HIGLEY 3.6	78.5	f 3.17		12.40
10				f	935.6		GERMANN 2.5	74.9	f		
15				f	938.1		RITTENHOUSE 3.5	72.4	f		
55	WP	9.45		f 9.25	941.6		QUEEN CREEK 8.2	68.9	f 3.01		12.15PM
45		10.10		s 9.45	949.8	TO	MAGMA 6.7	60.7	s 2.48		11.55AM
	P	10.30		9.58	956.5		FLORENCE JCT. 2.5	54.0	2.33		11.20
28	WP	11.20		s 10.13	959.0	TO	FLORENCE 0.5	51.5	s 2.28		11.10
6	Spur				959.5		STANCO 2.3	51.0			
2	Spur			f	961.8		BARR 4.9	48.7	f		
9	Spur			f	966.7		MUNN 1.6	43.8	f		
7	Spur				968.3		DIVERSION 0.7	42.2			
27		11.55AM		f 10.33	969.0		PRICE 6.2	41.5	f 2.05		10.33
27	P	12.15PM		f 10.48	975.2		COCHRAN 4.5	35.3	f 1.51		10.00
12	Spur			f	979.7		BUTTES 3.4	30.8	f		
26	P	12.45		f 11.07	983.1		ZELLWEGER 1.5	27.4	f 1.33		9.30
5	Spur				984.6		WOOLEY 3.2	25.9			
Yard	WP	1.23		s 11.30	987.8	TO-R	RAY JUNCTION 1.2	22.7	s 1.23		9.10
2	Spur				989.0		ERMAN 5.9	21.5			
32	P	1.55		f 11.45	994.9		BRANAMAN 4.3	15.6	f 1.08		8.25
	Y				999.2		BURNS WYE 0.5	11.3			
36		2.10		11.55	999.7		BURNS 0.5	10.8			
Yard	BKWOP	2.30PM	6.00AM	s 11.59AM	1000.2	TO-R	HAYDEN JCT. 1.9	10.3	s 12.48	s 7.50AM	8.00AM
17	P		s 6.10	s 12.10PM	1002.1		HAYDEN 1.4	8.4	s 12.41	s 7.40	
15	P		s 6.20	s 12.15PM	1003.5	TO	WINKELMAN 1.2	7.0	12.35PM	s 7.30	
6	Spur		f		1004.7		ROCK QUARRY 2.3	5.8		f	
4	Spur		f		1007.0		FINNEY 2.4	3.5		f	
2	Spur		f		1009.4		RUDO 1.1	1.1		f	
43	P		s 6.55AM		1010.5		CHRISTMAS	0.0		7.05AM	
		Arrive Mon. Wed. Fri.	Arrive Tues. Thur. Sat.	Arrive Daily Ex. Sunday			(86.9)		Leave Daily Ex. Sunday	Leave Tues. Thur. Sat.	Leave Tues. Thur. Sat.
		(6.20) 12.09	(0.55) 11.24	(3.30) 22.83			Time over district Average speed per hour		(3.05) 25.91	(0.45) 13.73	(5.15) 14.59

Rule S-72 Exception, No. 36 is superior to No. 35

Capacity of sidings in car lengths		EASTWARD SECOND CLASS	EASTWARD FIRST CLASS	Distance from San Francisco		Time Table No. 102 June 14, 1931 Nogales Branch	Distance from Nogales	WESTWARD FIRST CLASS		WESTWARD THIRD CLASS
		482	122					121		481
		Local Freight	Mexican Express					Mexican Express		Local Freight
		Leave Daily Ex. Sunday	Leave Daily			STATIONS		Arrive Daily		Arrive Daily Ex. Sunday
Yard	BKWFTYP	6.00AM	10.05AM	983.9	TO-R	TUCSON 0.8	65.9	s 6.00PM		2.30PM
				984.7		T. & N. R. R. JCT. 2.2	65.1			
	P	6.15	10.15	986.9		SOUTH LINE CROSSING 3.0	62.9	5.50		2.10
60	P	6.25	f 10.22	989.9		AGUIRRE 3.9	59.9	f 5.43		2.00
60	P	6.35	f 10.28	993.8		XAVIER 4.8	56.0	f 5.37		1.50
60	P	6.45	f 10.36	998.6		FELIX 3.8	51.2	f 5.29		1.40
120	WP	7.00	f 10.42	1002.4		SAHUARITA 4.6	47.4	f 5.23		1.30
62	P	7.10	f 10.49	1007.0		HARTT 3.4	42.8	f 5.16		1.15
13	P	7.20	f 10.55	1010.4		CONTINENTAL 1.7	39.4	f 5.10		1.05
63	P	7.30	f 10.58	1012.1		MORALES 1.5	37.7	f 5.07		1.00
12	Spur			1013.6		HACKETT 2.7	36.2			
62	P	7.40	f 11.05	1016.3		CANOA 2.2	33.5	f 5.00		12.50
				1018.5		SOPRI 2.6	31.3			
62	P	7.55	s 11.14	1021.1	TO	AMADO 4.5	28.7	s 4.51		12.40
61	P	8.05	f 11.22	1025.6		CHAVEZ 2.5	24.2	f 4.43		12.20
3	Spur		f	1028.1		SOTOS CROSSING 1.5	21.7	f		
61	WP	8.20	f 11.29	1029.6		TUBAC 4.6	20.2	f 4.36		12.05PM
62	P	8.30	f 11.37	1034.2		OTERO 3.2	15.6	f 4.28		11.55AM
62	P	8.40	f 11.42	1037.4		SILVA 2.7	12.4	f 4.23		11.42
	YP	8.50	f 11.47AM	1040.1 1111.0		CALABASAS 2.4	9.7	f 4.18		11.25
7			f	1113.8		PLOMO 1.7	7.3	f		
				1115.5		SAXTON 5.6	5.6			
Yard	BKWFTP	9.30AM	s 12.10PM	1121.1	TO-R	NOGALES	0.0	3.55PM		11.00AM
		Arrive Daily Ex. Sunday	Arrive Daily			(65.9)		Leave Daily		Leave Daily Ex. Sunday
		(3.30) 18.83	(2.05) 31.63			Time over district Average speed per hour		(2.05) 31.63		(3.30) 18.83

Rule S-72 Exception, No. 122 is superior to No. 121.

EASTWARD BOWIE SUBDIVISION WESTWARD

Capacity of sidings in car lengths	SECOND CLASS 142 Local Freight Leave Daily Ex. Sunday	FIRST CLASS 48 Miami Motor Leave Daily	FIRST CLASS 46 Miami Motor Leave Daily	Distance from San Francisco		Time Table No. 102 June 14, 1931 Globe Branch STATIONS	Distance from Bowie	FIRST CLASS 47 Bowie Motor Arrive Daily	FIRST CLASS 49 Globe Motor Arrive Daily	SECOND CLASS 141 Local Freight Arrive Daily Ex. Sunday
Yard BKWYFP	8.00AM	3.40PM		1098.4	TO-R	BOWIE	0.0	s 12.50PM		2.35PM
Yard				1098.7		0.8 NORTH YARD	0.8			
56 P	8.25	3.58		1107.4		8.7 ESCALA	9.5	12.32		2.15
18 Spur				1112.5		5.1 ARKILL	14.6			
44 WP	8.55	f 4.15		1117.8		5.3 TANQUE	19.9	f 12.14		1.45
50 P	9.20	4.26		1125.1		7.3 HAECKEL	27.2	12.02PM		1.25
55 P	9.40	s 4.38		1132.6	TO	7.5 SOLOMON	34.7	s 11.49AM		1.05
20		f		1135.3		2.7 LONE STAR	37.4	f		
53 WP	10.10	s 4.50		1137.5	TO	2.2 SAFFORD	39.6	s 11.38		12.45
34 P	10.40	s 4.58		1140.6	TO	3.1 THATCHER	42.7	s 11.28		12.20
5		f		1143.1		2.5 CENTRAL	45.2	f		
27 YP	11.18	s 5.07		1145.6	TO	2.5 PIMA	47.7	s 11.18		12.10PM
66 P	11.25	5.10		1146.7		1.1 DUBLIN	48.8	11.15		11.59AM
4		f		1148.9		2.2 GLENBAR	51.0	f		
60 P	11.45AM	f 5.21		1153.0		4.1 CORK	55.1	f 11.04		11.45
2 Spur		f		1154.8		1.8 ASHURST	56.9	f		
61 P	12.20PM	s 5.33		1159.3	TO	4.5 FT. THOMAS	61.4	s 10.53		11.10
56 CWP	12.40	s 5.43		1164.2		4.9 GERONIMO	66.3	s 10.43		10.55
58 P	1.00	f 5.52		1170.1		5.9 BYLAS	72.2	f 10.31		10.31
54 P	1.20	f 6.03		1176.8		6.7 CALVA	78.9	f 10.20		10.10
58 P	1.40	6.15		1183.7		6.9 NACHES	85.8	10.09		9.50
55 P	2.00	6.28		1191.0		7.3 DILI	93.1	9.57		9.25
17 Spur P		f		1197.2		6.3 PERIDOT	99.4	f		
57 WP	2.40	s 6.49		1201.0	TO	3.8 SAN CARLOS	103.2	s 9.40		8.55
42 P	3.00	7.02		1207.8		6.8 REPPY	110.0	9.28		8.35
E43 W42 WP	3.20	f 7.14		1213.5		5.7 CUTTER	115.7	f 9.18		8.20
21 P	3.50	7.30		1219.3		5.8 PINAL	121.5	9.06		7.58
Yard BKWFTP	4.05PM	s 7.45	7.40AM	1221.5	TO-R	2.2 GLOBE	123.7	s 9.00	s 9.00PM	7.45AM
				1222.1		0.6 DOMINION	124.3			
				1222.5		0.4 LIBRARY	124.7			
11				1222.8		0.3 U. G. CO.	125.0			
5				1224.0		1.2 HAMM	126.2			
3 Spur				1225.3		1.3 KINGDON	127.5			
13		f 7.57	f 7.52	1226.2		0.9 RADIUM	128.4	f 8.43	f 8.48	
3 Spur		f	f	1227.3		1.1 BURCH	129.5	f	f	
2 Spur		f	f	1229.3		2.0 KISER	131.5	f	f	
16		f 8.07	f 8.02	1230.2		0.9 CLAYPOOL	132.4	f 8.33	f 8.38	
				1231.0		0.8 HILL ST.	133.2			
Yard WYP		s 8.15PM	s 8.10AM	1231.9	TO-R	0.9 MIAMI	134.1	8.25AM	8.30PM	
				1233.0		1.1 INSPIRATION JCT.	135.2			
				1234.2		1.2 LIVE OAK	136.4			
	Arrive Daily Ex. Sunday	Arrive Daily	Arrive Daily			(136.4)		Leave Daily	Leave Daily	Leave Daily Ex. Sunday
	(8.05) 15.30	(4.35) 29.26	(0.30) 20.80			Time over district Average speed per hour		(4.25) 30.31	(0.30) 20.80	(6.50) 18 10

Rule S-72 Exception: No. 46 is superior to No. 47; No. 48 is superior to No. 49.

EASTWARD BOWIE SUBDIVISION WESTWARD

Capacity of sidings in car lengths	Distance from San Francisco		Time Table No. 102 June 14, 1931 Amster Branch STATIONS	Distance from Globe
Yard BKWFTP	1221.5	TO-R	GLOBE	0.0
12	1220.7		0.8 AMSTER JCT.	0.8
11	1225.2		4.7 GARDNER	5.5
51 Spur	1225.3		0.1 McGAW	5.6
8	1225.4		0.1 AMSTER	5.7
			(5.7)	

McGaw—Derailer on tracks leading to right and left. Amster Branch included in Globe yard limits.

RULE 2. The following are designated watch inspectors:

S. A. Pope, Manager of Time Service	65 Market St., San Francisco
Yuma	Wm. Baird
Phoenix	C. A. Sheldon & H. H. Howard
Winkelman	J. C. Williams, Sr.
Tucson	Greenwald & Adams
Tucson	Geo. D. Davidson Co.
Nogales	E. M. Mather
Lordsburg	H. H. Conder
Globe	J. G. Cubitto
Miami	Elmer H. Fruhling

RULE 5. Schedule time and train orders apply at junction switch at Picacho First class trains meeting at Gila take siding at passenger station.

RULE 14. At junction points when recalling flagman on diverging route use:
Four long and one short to recall flagman from the west.
Five long and one short to recall flagman from the east.
At Wellton and Picacho the Phoenix Line is diverging route.

These whistle signals apply on second main track between Phoenix and Kendall, and to westward Rio Grande Division trains at Mescal.

OTHER ENGINE WHISTLE SIGNALS:

For diverging route, one short, one long, one short.
For siding, one long, one short, one long.

RULE 14 (M). At Phoenix as follows: Eastward at 23rd Avenue; westward at 24th Street; instead of at station one mile board.

RULE S.-72. Westward trains are superior to trains of the same class in the opposite direction.

RULE 83. Trains may identify each other on double track Phoenix and on second main track and main track between Phoenix yard and Kendall while train in motion, but approaching trains must reduce speed to not exceed twenty miles per hour.

Between the hours of 6 A. M. and 2 P. M. daily Rule 83 will not apply at end of double track at Dome, provided a prior check has been obtained or positive observance check made between Wellton and Dome of eastward trains that are superior on single track. Between those hours trains between Wellton and Dome will approach each other at speed which will enable check to be made and will also comply with Rule 14 (k) if displaying green signals. In case of doubt, a check must be obtained from train dispatcher before entering single track at Dome.

RULE 83 (A). Phoenix—Only first class trains register.

RULE 83 (B). Phoenix Yard—First class trains register by ticket.

Engineers of light engines arriving Tucson from East will leave register ticket form 2642 with engine dispatcher for operator to enter on the register.

Regular and extra trains will register by ticket at Mescal.

RULE 83 (D). Trains must obtain clearance before leaving Tempe via Tempe Branch, Maricopa via Maricopa Branch, Bowie, Globe.

Trains originating at Phoenix must obtain a clearance before leaving Phoenix Yard.

RULE 93. Yard limits—Are defined by yard limit signs at the following stations: Yuma, Phoenix, Mesa, Ray Jct., Hayden Jct., Gila, Tucson, Nogales, Benson, Bowie, Lordsburg, Safford, Globe, Miami.

RULE 98. Railroad crossings not interlocked:

South Line Crossing.—Gate with red signal normal position across South Line track. Before changing position of gate and making movement on South Line track, protect in each direction on Nogales Branch as per Rule 99.

RULE 516. Overlaps located at:

Tyson—(Overlap on signal 7852) Eastward trains.
Clanton—(Overlap on signal 8105) Westward trains.
Athel—(Overlap on signal 8203) Westward trains.
Camel—(Overlap on signal 8293) Westward trains.
Gillespie—(Overlap on signal 8496) Eastward trains.
Crag—(Overlap on signal 8589) Westward trains.
23rd Ave. Phoenix—(Overlap on signals 9022) Eastward trains.
(Overlap on signals 9053 and 9055) Westward trains.
McQueen—(Overlap on signal 9218) Eastward trains.
Roskruge—(Overlap on signal 9626) Eastward trains.
(Overlap on signal 9657) Westward trains.
Cortaro—(Overlap on signal 9704) Eastward trains.

RULE 880. Engineers who have had less than 610 days' actual experience as engineers in freight service and less than 60 days' experience on the division must not be used in passenger service.

When engineers with less than 610 days' experience and less than 60 days' service as engineers on the district and firemen of less than one year's experience stand to help or double head a passenger train, they must handle the engine next to the train, the experienced men handle the leading engine.

RULE 825. This rule is extended. Includes spurs at Tyson, Clanton, Athel Camel and Crag.

METHOD OF TRAIN DISPATCHING BETWEEN TUCSON AND MESCAL

(A) Tucson Division dispatchers will handle eastward track (No. 2) and Rio Grande Division dispatchers will handle westward track (No. 1) between Tucson and Mescal. Double track forms D-R and D-S must not be used. If, in event it becomes necessary to move a train against the current of traffic, it must be run extra, specifying the track to be used and single track rules will apply between such train and those moving normally. Dispatchers must create work extras only on their respective tracks.

(B) Tucson Division dispatchers may issue orders under form G example 1, and forms F and K applying westward Mescal to Tucson over westward track (No. 1).

(C) Rio Grande Division dispatchers may issue orders under form G example 1 and forms F and K applying eastward Tucson to Mescal over eastward track (No. 2)

(D) Before moving an eastward extra against the current of traffic on westward track (No. 1), a transfer of orders issued under form G example 1, and forms F and K applying between Mescal and Tucson must be obtained from dispatcher of eastward track (No. 2).

(E) Before moving a westward extra against the current of traffic on eastward track (No. 2), a transfer of orders issued under form G example 1, and forms F and K applying between Tucson and Mescal must be obtained from dispatcher of westward track (No. 1).

(F) Rio Grande Division eastward trains must obtain two clearances before leaving Tucson, one marked Tucson Division and one marked Rio Grande Division.

RULE 83 (D) will not apply at Mescal. Trains will be governed by the train order signal.

USE OF RETAINING VALVES ON FREIGHT TRAINS

Retainers will be used on grades on trains of less than 100 Ms per operative brake, when necessary in the judgment of conductor and engineer and on trains of 100 Ms or more per operative brake as follows:

1.4% to 1.5%	incl. one retaining valve for every	150	Ms in train
Over 1.5% to 1.8%	" " " " " "	140	" " "
Over 1.8% to 2.2%	" " " " " "	120	" " "
Over 2.2%	" " " " " "	100	" " "

Speed of freight trains must not exceed twenty-five miles per hour. For the first five miles time consumed in traveling any one mile must not be less than three minutes. These instructions will not affect the speed where maximum now specified is lower.

NORTH LINE—EASTWARD

Mile Post 1023.6 to 1033.2	1.4%
Mile Post 1128.8 to 1131.6	1.4%

WESTWARD

Mile Post 1128.8 to 1118.5	1.4%
Mile Post 1041.5 to 1033.9	1.4%

GLOBE BRANCH—EASTWARD

Mile Post 1219.0 to 1220.7	2%
Mile Post 1221.6 to 1221.7	1.5%
Mile Post 1222.1 to 1222.8	2%
Mile Post 1226.3 to 1226.7	1.5%
Mile Post 1228.8 to 1229.2	1.4%

WESTWARD

Mile Post 1234.1 to 1232.6	3%
Mile Post 1231.0 to 1230.8	1.4%
Mile Post 1229.2 to 1228.8	1.4%
Mile Post 1219.0 to 1213.9	2.2%

AMSTER TO GLOBE

Mile Post 1225.4 to 1224.1	3%
Mile Post 1223.3 to 1220.9	3%

PICACHO SUBDIVISION

Hayden Mills to Hayden Junction	2.2%

TRAIN AND AIR INSPECTION

Running air brake test must be made as follows:

Mohawk (Eastward and Westward)
Estrella (Westward)
Harqua (Westward)
Mescal (Eastward)
Dragoon (Westward)
Steins (Westward)
Pinal (Eastward and Westward)

Standing air brake test must be made by freight and mixed trains immediately before departure at:

Buchan or Estrella (Westward)
Gillespie or Harqua (Westward)
Mescal (Eastward)
Dragoon
Steins
Cutter (Westward)
Pinal
Amster

RULE 827. Freight trains may run not to exceed a distance of 55 miles without stopping for inspection, which does not relieve trainmen from making inspection wherever stops permit and other points specified in time table, or whenever it is necessary in the judgment of the conductor.

Freight trains on descending grade must stop five minutes for inspection at:

Saddle or Papago
Bosque or Ocapos
Tully or Sibyl
Hado or Willcox
Bawtry or San Simon

AUTOMATIC BLOCK SYSTEM

When eastward trains are to meet or wait for opposing trains while occupying main track at Kendall, such trains will stop west of signal 9112.

Eastward trains on second main track will be governed by position of signals 9112 and 9113 before entering main track.

Signals No. 2 track Tucson to Esmond are double track signals. Signals Esmond to West switch Mescal are single track signals.

Between Tucson and Polvo, automatic signals are on the left and signals used by trackmen will be placed on the left of the track in the direction of movement.

RULE 509. When a block signal in advance of facing point oil buffer spring switch indicates "Stop," careful examination of switch must be made before passing over it.

INTERLOCKING

WELLTON

The two crossover switches 4,000 feet east and the two crossover switches 400 feet west of station are operated by signal operator.

Limits extend from two-arm signal on Gila Line and two-arm signal on Phoenix Line 4,000 feet east of station to light signal on westward track 400 feet west of station and to two-arm signal on eastward track 1,000 feet west of station.

The derail at east end of siding is electrically locked, and can be operated by trainmen only when released by signal operator.

TUCSON, SIXTH AVENUE

Limits on westward track extend from dwarf signal at derail to signal 9835, and on eastward track from dwarf signal opposite signal 9835 to dwarf signal 500 feet east.

Signals permitted by Rule 628 may be given from tower.

MESCAL

Interlocking signals of the Rio Grande Division will display indication in the upper quadrant.

Limits are between home signals governing east switch of east crossover and west switch of west crossover of the Rio Grande Division, and home signals governing east switches and west switches of sidings of the Tucson Division. Switches are controlled by signal operator, except switch leading from north siding to cinder track, to spur track, from south siding on both legs of wye and to west end of coal track.

Switch and derail east end coal track are hand-throw switches but must not be used until permission is secured from signal operator.

Where yellow hand signals cannot be seen, trains stopped will call the signal operator and secure permission to proceed; also to throw switch by hand in event the remote control appliance is inoperative.

Whistle signals as follows:

Eastward trains enroute Tucson Division—two short, one long and two short.
Eastward trains enroute Rio Grande Division—one long and four short.
Eastward trains for south siding—one short, one long and one short.

Eastward trains south siding to Tucson Division—two short, one long and one short.

Eastward trains south siding to Rio Grande Division—one short, one long and two short.

Westward trains north siding to No. 1 track—two long and two short.

Westward trains Tucson Division enroute No. 1 track—one short and two long.

Westward trains Tucson Division enroute north siding—two short and two long.

Westward Rio Grande Division trains enroute No. 1 track—one long, one short and one long.

Westward trains from Rio Grande Division through east crossover and Tucson Division to No. 1 track—one short, two long and one short.

The beginning of the Tucson Division single track is at east switch of west crossover. The beginning of the Rio Grande Division single track is at east switch of east crossover.

MISCELLANEOUS

When necessary to handle passenger equipment except official cars in freight trains, it must be placed next to caboose, providing rear end freight cars in train will permit.

Helpers may be placed behind caboose if of steel underframe construction and cars ahead of caboose are not rear end cars; otherwise cut in ahead of twenty-five per cent of tonnage, or more if necessary to cut in ahead of all rear end cars; or if in opinion of conductor conditions are favorable helpers may be put on head end of train.

Road engines double heading between Tucson and Lordsburg may be put on head end provided the tonnage is not in excess of 5000 Ms.

Trains and engines must stop and be preceded by a flagman before crossing 1st, 2nd, 3rd, and 4th Streets, Yuma. Engines must be attached to all cars handled over crossings.

At East Yard, normal position oil buffer spring switch end double track, for trains entering the double track. Rule 83, as it applies to the passing from double to single track, is modified permitting the registration of trains on Yuma register to apply at East Yard. If identification of trains on double track is made between Yuma and East Yard it will not be necessary to obtain a train order check of the same trains before passing from double to single track at East Yard. Trains moving in opposite directions on the double track must reduce speed sufficiently to permit identification. Rule 14 (k) must be applied between Yuma and East Yard. Westward trains reduce speed to 30 M. P. H. and eastward trains to 20 M. P. H. passing over this switch.

At Dome, operators, when on duty, will handle switches at west end of double track.

Engines placing loaded cars on highline spur track at Granite Spur will not handle more than two loads at one time, using sufficient other cars between the loads and engine to avoid engines passing highline spur switch.

Unless trains can get into clear at following stations it results in delays to trains flagging blocks between these stations and adjoining stations: Cowden, Jean, Tremaine, Falfa, Olberg.

Oil buffer switches located Phoenix yard west end freight main track, just east A. T. & S. F. wye, and east end double track.

Second main track between east end Phoenix yard and Kendall east switch, may be used by freight trains when authorized by train order. Single track rules apply.

Entrance to Tovrea Packing Co. plant, Cactus, protected by gates, which must be kept closed and locked, when not in use.

Trains and engines must be preceded by a flagman before crossing Mill Avenue and 8th Street, Tempe, Tempe Branch.

Normal position of Christmas Branch switch near east end siding at McQueen is for Christmas Branch.

Light will not be displayed in train order signals at Gilbert, Magma, Florence, Ray Junction and Winkelman as required by Rule 221, except when train orders are to be delivered.

Between Buttes and Zellweger and between Rock Quarry and Christmas look out for rock and land slides.

Signal at Hayden Junction, governing movement of trains between Christmas Branch switch (1584 feet east of Hayden Junction) and Hayden Junction train-order office. Engineer will call for this signal by one long, one short and one long sounds and will not proceed until signal has been placed in proceed position. Normal position Christmas Branch switch for R. & G. V. Railroad.

Westward trains moving between Hayden and Hayden Junction on Christmas Branch and R. & G. V. Railroad, must stop, before fouling adjacent track.

Entrance to R. C. C. Co. plant, Hayden, protected by gates which must be closed and locked at night.

Serape is emergency water station.

Cars must not be detached in motion to spur at Peak.

Look out for cars on west leg of wye Picacho.

At Picacho, operators, when on duty, will handle switches near train-order office for movements to and from Phoenix Line and siding.

At Mohawk, eastward trains will use No. 2 track, and westward trains No. 1 track.

At Sentinel, westward trains except first-class, will use east siding; westward first-class and eastward trains west siding.

At Maricopa, scale track switches are lined for through train movement Maricopa Branch, connecting with track No. 3 to initial switch Picacho Subdivision. These tracks must be kept clear of cars and switches left lined accordingly.

At Stockham, normal position oil buffer spring switch end double track, for trains entering the double track. Rule 83, as it applies to the passing from double to single track, is modified permitting the registration of trains on Tucson register to apply at Stockham. If identification of trains on double track is made between Tucson and Stockham it will not be necessary to obtain a train order check of the same trains before passing from double to single track at Stockham. Trains moving in opposite directions on the double track must reduce speed sufficiently to permit identification. Rule 14 (k) must be applied between Tucson and Stockham. Westward trains reduce speed to 20 M. P. H. and eastward trains to 30 M. P. H. passing over this switch.

At least 15 hand brakes on west end and 10 hand brakes on east end must be set on all freight trains arriving North yard, Tucson. These brakes must be set with brake club after train has stopped. Brakes to be set commencing at the west and east ends of train or cut. An employe releasing any of these brakes will be held responsible to see that the same number are set before releasing.

At least seven hand brakes must be set on west end of each cut of cars in P. F. E. yard, Tucson, except on S. P. tracks Nos. 1, 2 and 3, at least fifteen hand brakes must be set.

At Tucson, on passenger trains after engine is spotted for taking oil, two hand brakes must be set on the head end and two on rear end.

Look out for ice and rubbish alongside tracks P. F. E. yard, Tucson.

Trains and engines must be preceded by a flagman before crossing Congress St., Tucson.

Back-up hose must be used by yard engines making back up movements with cars between North and South yards, Tucson.

Westward trains except first class and light engines must not pass crossover switch near signal 9851 Tucson yard without proceed signal from yardman.

Esmond is emergency water station.

Eastward trains take full tank water at Benson and avoid taking water at Sibyl, unless dispatcher instructs otherwise. Westward trains take water at Sibyl only when it will avoid stopping at Benson.

Helper engines must not make continued backward movement between Steins and San Simon and must turn at San Simon before tying up.

Take a full tank of water at Tanque and Geronimo and avoid taking water at Safford.

Between Calva and Peridot look out for rock and land slides.

Back-up hose must be used when delivering cars to O. D. Co. transfer Globe.

A flagman must precede all movements over street at Solwico, Globe.

Eastward trains and engines must stop before crossing Murphy Street, Globe.

A flagman must precede all movements over Mills Street, Latham Blvd., and junction of Adonis and Keystone Avenues, Miami.

DERAILS IN MAIN TRACK AS FOLLOWS:

250 feet east of west switch Christmas.
579 feet west of west switch Nogales, may be run through by eastward trains.
165 feet east of South Line Crossing on South Line.
173 feet east of junction switch at Amster Jct.

FOLLOWING TRACKS NOT TO BE USED BY 3600 OR HEAVIER CLASS ENGINES

Tempe Branch.
Maricopa Branch sidings.
Christmas Branch between Winkelman and Christmas.
Christmas Branch sidings and spurs.

FOLLOWING TRACKS NOT TO BE USED BY 3200 OR HEAVIER CLASS ENGINES

Blaisdell	Spur.
Granite Spur	Spur (except 3600—Class F-1, engines may use tracks No. 1 and 2 between main line switch and high-line switch only).
Wellton	Spur.
Tacna	Spur.
Colfred	Spur.
Pembroke	Spur.
Mohawk	West spur.
Stoval	Spur.
Musina	Spur.
Aztec	House between east end freight platform and east switch.
Stanwix	Spur.
Delosa	Wye.
Sentinel	House and pump spur.
Tartron	Spur.
Smurr	Spur.
Maricopa	North house. No. 4. No. 5. South leg wye, pump house spur.
Casa Grande	Stock.
Eloy	East lettuce spur (south side).
Hassayampa	Wye.
Buckeye	Standard Oil and Boswell gin spurs.
Kendall	South track between Kendall and Cactus Reduction plant.
Tempe	Tempe Milling Co., Phoenix Mill and gravel pit spurs, East leg wye, house track, tracks 2 and 3.
Mesa	Sawdey & Hunt spur. Standard Oil spur. Texas Oil spur. Shell Oil spur. Independent Cotton & Oil Co. spur. Mutual Cotton Oil spur. Melon track.
North Mesa	Lettuce track.
Mesa Branch	Spurs.
Nogales Branch.	
Benson	Oil spur, team, south coal, hotel.
Middle yard wye track; except in emergency SP-1, SP-2, F-1, F-3, F-4, F-5, MK-5, MK-6, MK-7, MK-8 and MK-9 class engines may turn on wye, but must head onto east leg.	
Fairbank Branch	Yard and wye.
Cochise	Wye, south house, Cochise Branch.
Willcox	Spur track from stock track.
Bowie	Oil spur east of west end of pump house.
Lordsburg	Transfer and house tracks, A. & N. M. yard.
Globe Branch	

FOLLOWING TRACKS NOT TO BE USED BY ABOVE CLASS ENGINES NOR BY CONSOLIDATION OR ATLANTIC TYPE ENGINES:

Buckeye	Mutual Cotton Oil and gin spurs.
Litchfield Branch.	

South track between Cactus Reduction plant and Salt River bridge (Nor by 1800 class.)

Tempe Branch	Sidings and rock quarry spur.
Frankenburg	Spur (nor by 1800 class).
Tempe Pumping Plant	Spur.

Mesa Branch east of Creamery and 2000 feet west of west switch, North Mesa. (Nor by 1800 class.)

Mesa	Drew's spur (must back in).
Magma	Spur.
Munn	Spur.
Buttes	Spur.
Finney	Spur.
Casaba Branch	(Nor by 1800 class.)
West Chandler	Wye and stock corrals.
Sacate	Wood spur.

Engines must not use:

Elevated trestle north of Mesa used by electric light plant for unloading.

Spurs: Florence, Burns, Sacate.

Red Rock	Arizona Southern tracks, including wye.

SPEED RESTRICTIONS

MAXIMUM SPEED OF PASSENGER TRAINS MUST NOT EXCEED 50 MILES PER HOUR EXCEPT THAT BETWEEN YUMA AND TUCSON, VIA EITHER PHOENIX LINE OR GILA LINE, BETWEEN MANZORO AND DRURY AND BETWEEN BOWIE AND EAST SWITCH BAWTRY THE MAXIMUM SPEED MUST NOT EXCEED 60 MILES PER HOUR.

MAXIMUM SPEED OF FREIGHT OR MIXED TRAINS MUST NOT EXCEED 35 MILES PER HOUR EXCEPT THAT BETWEEN YUMA AND TUCSON, VIA EITHER PHOENIX LINE OR GILA LINE, BETWEEN MANZORO AND DRURY AND BETWEEN BOWIE AND EAST SWITCH BAWTRY THE MAXIMUM SPEED MUST NOT EXCEED 40 MILES PER HOUR.

NO PASSENGER TRAIN SHALL EXCEED A SPEED OF 40 MILES PER HOUR AROUND CURVES OF 5 TO 6 DEG. AND 30 MILES PER HOUR AROUND CURVES OF OVER 6 DEG., AND BETWEEN POINTS WHERE MAXIMUM SPEED IS 60 MILES PER HOUR SHALL NOT EXCEED A SPEED OF 50 MILES PER HOUR AROUND CURVES OF LESS THAN 5 DEGREES.

NO FREIGHT OR MIXED TRAIN SHALL EXCEED A SPEED OF 30 MILES PER HOUR AROUND CURVES OF 5 TO 6 DEG., AND 25 MILES PER HOUR AROUND CURVES OF OVER 6 DEG.

MAXIMUM SPEED OF SP-1, SP-2, F-1, F-3, F-4, AND F-5 CLASS ENGINES IN PASSENGER SERVICE IS AS FOLLOWS:

(a) Tangent track—45 miles per hour.
(b) Type F1 (Nos. 3600 to 3652 Incl.). Restricted to same speeds on curves as applicable to other passenger power.
(c) Type F3-F4-F5 (Nos. 3653 upward) and SP1-SP2. Restricted to 25 miles per hour on curves of 7 to 10 degrees inclusive, and on curves of less than 7 degrees subject to same restrictions applicable to engines of lighter type.

MAXIMUM ALLOWABLE SPEED OF CONSOLIDATED AND MIKADO ENGINES (57 INCH DRIVERS) IN PASSENGER SERVICE WILL BE 45 MILES PER HOUR. MIKADO ENGINES (63 INCH DRIVERS) IN PASSENGER SERVICE 50 MILES PER HOUR.

Trains must not exceed the speed in miles per hour shown below:

Page	BETWEEN	Passenger	Freight or mixed	Engines or Motor cars Backing
......	Through interlocking limits with caution	......	......	......
......	Through crossovers, turnouts, except Dome, and two east crossovers Wellton	10	10	10
2-3	Yuma yard, Colorado River bridge and switch 800 ft. east of subway	15	15	15
2-3	Dome, and two east crossovers Wellton	20	20	15
2-3-4-5	Phoenix yard, 19th Ave. and 18th St.	15	15	15
4-5	Kendall and Phoenix yard limits (second track)	25	25	15
4-5	Kendall and Salt River bridge (south track)	15	15	15
4-5-7	Mesa yard, west switch and east city limits	20	20	20
4-5	Tucson, North yard, South Line Jct. and signal 9851	15	15	15
4-5	Tucson, North yard, westward main track, signal 9883 and signal 9851	..	20	20
6	Two east crossovers Wellton	20	20	15
6	Litchfield Branch	20	20	15
6	Maricopa Branch	45	35	20
6	Maricopa, east leg wye	20	20	20
6-7	Gila yard, west and east switches	15	15	15
7	Tempe Branch	20	20	15
7	Mesa Branch	15	15	15
7	Casaba Branch	20	20	15
7	Florence Branch	30	30	20
8	Mescal interlocking limits, when using normal route	35	25	15
8	Mescal, other crossovers and turnouts	15	15	10
8	Benson yard	30	30	20
8	Bowie yard, west and east switches	15	15	15
9	McQueen and Price	40	30	20
9	Price and Christmas	30	30	20
9	Ray Junction yard	15	15	15
9	Hayden Junction yard	15	15	15
9	R. & G. V. R. R.	15	15	15
9	Tucson, South yard, South Line Jct. and South Yard Jct.	15	15	15
9	Tucson yard, South Line Crossing and North yard, via Nogales Branch	15	15	15
9	Tucson and Nogales	40	35	20
9	Calabasas, east wye switch	15	15	15
9	Nogales yard	20	20	20
10	Bowie-Miami	40	30	20
10	Bowie yard	15	15	15
10	Safford yard	15	15	15
10	Globe yard	15	15	15
10	Globe, Broad Street crossing	6	6	6
10	Globe, Old Dominion high line	10	10	10
10	Miami yard	15	15	15
10	Miami yard limits-Live Oak	15	15	10

SPEED OF TRAINS REGULATED BY ORDINANCES THROUGH CITY LIMITS

Page	STATION	M. P. H.
2, 3	Yuma street crossings	5
4, 5, 7	Tempe	20
4, 5	Chandler	20
8	Willcox	30
9	Nogales	20
11	Safford	15
11	Pima	15

SPEED RESTRICTIONS—Contined.

OTHER MAXIMUM SPEEDS IN MILES PER HOUR AS FOLLOWS:	M. P. H.
4300 class and heavier—passenger and freight service, Maricopa Branch	30
2900 class, 4200 class—in passenger service	40
4000 class—in passenger service	35
Mk-4 class passenger service	35
Mk-4 class freight service	25
Mikado engines between Winkelman and Christmas	20
Yard engines	20
Engines backing coupled in trains or light, on main line	25
“ “ “ “ “ “ “ other lines	20
Engines with broken spring hangers	25
Engines with main rod only removed	30
Engines with side rods only removed	30
Engines with both main and side rods removed	20
Trains handling steam derrick on tangent track, and will observe other speed restrictions for freight trains	25

Engines running light forward must not exceed the maximum speed permitted freight trains unless otherwise directed, except TW class must not exceed 30 miles per hour and the following classes must not exceed 35 miles per hour:

T-1, 2, 7 to 23, 28, 31, 34, 36;
T-3, 5, 25, 26, 32, 33, 37, 40;
C-2 to 10, inclusive;
C-18 to 23, inclusive;
MK-5, 6, 7, 8, 9;
F-1, 3, 4, 5, 6;
SP-1, 2, 3.

Wooden passenger cars, when used in main line service, must be equipped with steel center sills and steel platforms, except

(a) Wooden baggage, express and other head-end cars not so equipped may be used, when entire consist of train is composed of such equipment, or may be handled on head end of passenger trains, provided consist thereof does not exceed seven cars, and inspection indicates movement can be made with entire safety.

(b) Wooden passenger-carrying cars not so equipped may be used in local passenger trains and in local extras, operated account Holiday or excursion traffic, provided speed of such extras is restricted to forty miles per hour. When consist of local regular or extra trains contain both wooden and steel passenger-carrying cars, the wooden equipment must be kept together and on the rear.

SPEED TABLE

Miles per Hour	1 Mile in Min. Sec.	Miles per Hour	1 Mile in Min. Sec.	Miles per Hour	1 Mile in Min. Sec.	Miles per Hour	1 Mile in Min. Sec.	Miles per Hour	1 Mile in Min. Sec.
6	10.00	21	2.51	31	1.56	41	1.27	51	1.11
8	7.30	22	2.43	32	1.52	42	1.25	52	1.09
10	6.00	23	2.36	33	1.49	43	1.23	53	1.08
12	5.00	24	2.30	34	1.45	44	1.21	54	1.07
15	4.00	25	2.24	35	1.42	45	1.20	55	1.06
16	3.45	26	2.18	36	1.40	46	1.18	56	1.04
17	3.31	27	2.13	37	1.37	47	1.16	57	1.03
18	3.20	28	2.08	38	1.34	48	1.15	58	1.02
19	3.09	29	2.04	39	1.33	49	1.13	59	1.01
20	3.00	30	2.00	40	1.30	50	1.12	60	1.00

STRUCTURES LESS THAN STANDARD CLEARANCE

Mile Post	Description	
733.0	Yuma, ice platforms	Side
755.2	Granite Spur, chute on crusher track will not clear car higher than ballast car.	
778.0	Gila River bridge	Side
891.0	Agua Fria River bridge	Side
907	Phoenix, ice platform	Side
914	Salt River bridge	Side
914.4	Tempe, Tempe Milling Co. spur	Side
921.8	Mesa, Texas Oil Co., Drew's spur and ice platform	Side
959.3	Gila River bridge	Side
972.4	Tunnel No. 1 (Christmas Branch)	Overhead and Side
972.5	Gila River bridge (Christmas Branch)	Side
975.4	Rock cut (Christmas Branch)	Side
985.3	Gila River bridge (Christmas Branch)	Side
987.8	Ray Junction, water tank spout	Overhead and Side
1007.0	Finney, ore chute	Side
1029.6	Tubac, water tank spout	Overhead and Side
1121.1	Nogales, ice platform	Side
1008.1	Cienega Creek bridge	Side
1033.6	San Pedro River bridge	Side

STRUCTURES LESS THAN STANDARD CLEARANCE—Continued.

Mile Post	Description	
1114.2	San Simon, water tank spout	Overhead and Side
1137.5	Safford, water tank and spout	Overhead and Side
1164.2	Geronimo, water tank and spout	Overhead and Side
1201.0	San Carlos, water tank and spout	Overhead and Side
1234.1	Inspiration spur, chute	Side
1225.4	Amster, ore chute, S. & B. mine spur	Overhead and Side
	All water stations, pile driver S. P. 2534 will not clear water spouts on Globe Branch	

Employes are warned that it is dangerous to ride on top or sides of cars at above mentioned points.

SURGEONS

Location		Name	Title
San Francisco	Cal.	Dr. W. B. Coffey	Chief Surgeon and Manager
Yuma	Ariz.	Dr. John W. Stacey	District Surgeon
Yuma	“	Dr. Charles S. Powell	Asst. District Surgeon
Yuma	“	Dr. W. C. Cain	Acting District Surgeon
Litchfield	“	Dr. R. L. Penn	District Surgeon
Buckeye	“	Dr. G. C. Rubel	District Surgeon
Phoenix	“	Dr. Geo. M. Brockway	District Surgeon
Phoenix	“	Dr. A. M. Tuthill	Assistant District Surgeon
Phoenix	“	Dr. J. E. Drane	Assistant District Surgeon
Phoenix	“	Dr. D. F. Harbridge	Oculist
Phoenix	“	Dr. W. A. Schwartz	Aurist
Phoenix	“	Dr. Win Wylie	Consulting Surgeon
Phoenix	“	Dr. W. O. Sweek	Consulting Surgeon
Tempe	“	Dr. R. J. Stroud	District Surgeon
Mesa	“	Dr. R. F. Palmer	District Surgeon
Mesa	“	Dr. George C. Truman	District Surgeon
Chandler	“	Dr. Jas. M. Meason	District Surgeon
Coolidge	“	Dr. H. E. Pinkerton	Emergency Surgeon
Gilbert	“	Dr. L. M. Thompkins	Emergency Surgeon
Florence	“	Dr. G. E. Huffman	District Surgeon
Ray	“	Dr. O. E. Utzinger	District Surgeon
Hayden	“	Dr. F. R. Winslow	District Surgeon
Gila	“	Dr. G. T. Wells	District Surgeon
Casa Grande	“	Dr. J. E. Redden	District Surgeon
Tucson	“	Dr. C. A. Thomas	Division Surgeon
Tucson	“	Dr. S. C. Davis	Division Surgeon
Tucson	“	Dr. J. B. Littlefield	Assistant Surgeon
Tucson	“	Dr. V. G. Presson	Assistant Surgeon
Tucson	“	Dr. R. A. Wilson	Assistant Surgeon
Tucson	“	Dr. M. C. Comer	Oculist and Aurist
Tucson	“	Dr. T. H. Cates	Assistant Oculist and Aurist
Nogales	“	Dr. W. F. Chenoweth	District Surgeon
Benson	“	Dr. J. N. Morrison	District Surgeon
Benson	“	Dr. R. E. Yellot	District Surgeon
Cochise	“	Dr. J. B. Ellis	District Surgeon
Willcox	“	Dr. J. C. Wilson	District Surgeon
Willcox	“	Dr. B. E. Briscoe	Assistant District Surgeon
Bowie	“	Dr. F. W. Parrish	District Surgeon
Lordsburg	N. M.	Dr. C. P. Austin	District Surgeon
Lordsburg	“	Dr. C. B. Austin	Assistant District Surgeon
Safford	Ariz.	Dr. J. N. Stratton	District Surgeon
Rice	“	Dr. Z. M. Laughlin	District Surgeon
Globe	“	Dr. Clarence Gunter	District Surgeon
Globe	“	Dr. R. D. Kennedy	Assistant District Surgeon
Globe	“	Dr. W. A. Holt	Consulting Surgeon
Miami	“	Dr. C. M. Cron	District Surgeon
Miami	“	Dr. J. E. Bacon	Assistant District Surgeon
Miami	“	Dr. E. L. Christenson	Oculist and Aurist

HOSPITALS

General Hospital, Southern Pacific Hospital	San Francisco, Calif.
Division Hospitals, St. Mary's Hospital	Tucson, Ariz.
St. Joseph's Hospital	Phoenix, Ariz.

LOCATION HOSPITAL STRETCHERS

Yuma, Gila, Maricopa, Phoenix, Tempe, Ray Junction, Tucson, Benson, Bowie, Lordsburg, Globe.

AVERAGE TARE WEIGHTS OF PASSENGER TRAIN CARS

Class	All Steel	Steel Under-Frame	Wood
Baggage, 60 ft.	93,070		
“ 66 ft.	127,610		
“ 70 ft.	122,620		
“		87,120	81,120
“ (Dynamo)	98,730		
Baggage and Mail, 60 ft.	103,620		
“ “ “ 69 ft.	124,760		
“ “ “ 70 ft.	129,140		
“ “ “		103,590	99,200
Baggage and Passenger	108,675	112,640	76,320
Baggage (CM&StP)	125,000		
Express, Refr. (NP RR)		74,000	60,000
“ “ (GN RR)			70,000
“ “ (A. R. E.) No. 40- 154		78,000	
“ “ “ “ “ “ 155- 224		89,000	
“ “ “ “ “ “ 500- 506		110,000	
“ “ “ “ “ “ 1101-1175		85,000	
“ “ (P. F. E.) “ 500- 799		83,000	
Tea and Silk			48,180
Express, Horse	133,050		81,033
Postal	112,120		
Postal Storage, 40 ft.	74,530		
“ “ 60 ft.	105,120		
Club	146,210	122,300	
Official	170,700	155,370	109,370
“ (CM&StP)	141,000		
Chair	100,620		84,740
Coaches, 60 ft.	98,130		
“ 70 ft.	137,640		
“ 72 ft.	139,660		
“ 73 ft.	148,040		
“ 72 ft. Interurban	120,000		
“ (CM&StP)	133,000		
“			81,210
All-Day Lunch, Chair	105,970		
“ “ Coach	103,875		
Cafe-Coach			117,200
Diner, 70 ft.		135,930	131,040
“ 72 ft.	155,330	146,930	134,530
“ 77 ft.	157,240	165,530	
“ 79 ft.	169,100		
Cafe-Observation	148,950		128,550
Observation		141,870	121,300
Pullman Observation	163,600	153,000	
“ Parlor	155,600	147,500	
“ Standard Sleeper	164,600	144,000	
“ Tourist	140,600	133,000	
(CM&StP) Tourist Sleeper	141,000		
Rail Car, Gas & Electric	143,360		
“ “ McKeen, 55 ft.	64,140		
“ “ “ 70 ft.	71,530		
Observation (Open Top)			62,000

DIVISION MILEAGE

Main Lines

Yuma to Lordsburg	S. P. R. R.		412.60	
Tucson to South Yard Junction	E. P. & S. W. R. R.		7.69	
Wellton to Picacho via Phoenix	A. E. R. R.	195.91		
	P. & E. R. R.	13.10	209.01	
Total Main Lines				629.30

Branches

Amster	A. E. R. R.	Amster Jct. to Amster		4.88	
Benson-Fairbank	S. P. R. R.	Benson Jct., Nogales Branch to Benson, Initial Point E. P. & S. W. R. R.		.64	
Casaba	A. E. R. R.	Pozo Jct. to Casaba		4.79	
Christmas	P. & E. R. R.	Tempe to Christmas	75.25		
	A. E. R. R.	McQueen to Christmas	12.76		
	R. & G. V. R. R.	Hayden Jct. to Hayden	.32	88.33	
Cochise-Douglas	S. P. R. R.	Cochise to Initial Point A.E.R.R.	.04		
	A. E. R. R.	At Cochise	1.26	1.30	
Florence	A. E. R. R.	Florence Jct. to Poston		6.04	
Globe	A. E. R. R.	Bowie to Inspiration Jct.		136.15	
Hansen	A. E. R. R.	West Chandler to Hansen		2.17	
Litchfield	A. E. R. R.	Litchfield to Litchfield Park		4.92	
Maricopa	A. E. R. R.	Maricopa to Tempe Jct.		25.78	
Mesa	A. E. R. R.	Phoenix & Eastern Jct. to Mesa		7.25	
Nogales	S. P. R. R.	At Tucson	.63		
	T. & N. R. R.	T. & N. R. R. Jct. to Calabasas	55.38		
	N. M. & A. R. R.	Calabasas to Nogales	9.80	65.81	
Total Branches					348.06
Total					977.36

RATING OF LOCOMOTIVES—TUCSON DIVISION

IN Ms OF 1,000 LBS. BACK OF TENDER

Nominal Class	OFFICIAL CLASS	ENGINE NUMBERS	Boiler Pressure	Yuma to Tucson Via Gila	Tucson to Yuma Via Gila	Yuma to Tucson Via Phoenix	Tucson to Yuma Via Phoenix	Tucson to Nogales	Nogales to Tucson	Maricopa and Tempe Jct.	McQueen to Christmas	Christmas to McQueen	Pozo Jct. and Casaba
				Helper	Single	Single	Single	Single	Single	Single	Single	Single	Single
M- 4	M-63 20/28 126	1615 to 1719	190	3050	2900	3050	2900			4100	3150	3750	3000
M- 4	M-63 20/28 128-S												
M- 4	M-63 20/28 135-S												
M- 9	M-63 21/28 150-S	1828 to 1830	210	3950	3800	3950	3800			5050	4100	4900	3900
M-11	M-63 22/28 153-S	1832 to 1835	200	4150	3950	4150	3950			5250	4250	5100	4100
M-11	M-63 22/28 162-SF												
T- 1	T-63 20/26 112	2235 to 2273	180	2700	2600	2700	2600						
T- 2	T-63 19/24 105	2221 to 2230	160	1950	1850	1950	1850	1350	1700				
T- 5	T-69 19/24 112-S	2210	180	2100	2050	2100	2050	1450	1900	2700	2150	2600	2100
C-9, 10	C-57 22/30 200-SF	2513 to 2599, 2698 to 2860	210	4800	4600	4800	4600	3000	4100	6760	4700	5600	
C-9, 10	C-57 22/30 194-S												
C- 8	C-57 22/30 192-S												
TW- 3	TW-50 20/26 120	2932 to 2945	170	3050	2900	3050	2900	2050	2600				
A- 3	A-81 20/28 112-S	3025 to 3071	210	2650	2600	2650	2600	1850	2350	3450	2750	3300	2650
A- 5	A-81 20/28 108-S	3072, 3074											
A- 5	A-81 21/28 108-S	3073	210	2950	2900	2950	2900	2050	2650	3800	3050	3700	2950
P-12	P-73 27/28 189-S-F	3120 to 3129	190	5000	4750	5000	4750						
Mk-2, 4	Mk-57 23¼/30 206-S	3200 to 3240	210	5600	5400	5600	5400			7400	5650	6750	
Mk-2, 4	Mk-57 23¼/30 206-SF												
Mk-5, 6	Mk-63 26/28 210-S	3241 to 3277	210	6000	5750	6000	5750			7700	6100	7300	
Mk-5, 6	Mk-63 26/28 210-SF												
Mk-7, 8, 9	Mk-63 29/30 247-S	3300 to 3324	176	5700	6350	5700	6350						
Mk-7, 8, 9	Mk-63 29/30 257-SF												
F- 1	F-63 27½/32 273-S	3600 to 3652	200	5900	6700	5900	6700						
F-4, 5	F-63 29½/32 306/B-61-SF	3668 to 3763	200	6600	8000	6600	8000						
F- 5	F-63 29½/32 306/B-62-SF	3764 to 3768											
Mt-1,3,4,5	Mt-73 28/30 246/B-60-SF	4300 to 4376	210	5700	6400	5700	6400						
Mt-2	Mt-73 29/30-262-SF	4385 to 4390	210	5850	6600	5850	6600						
SP-1	SP-63 25/28-32 316/B-60-SF	5000 to 5048	225	8000	8000	8000	8000						
SP-2, 3	SP-63 25/28-32 317/B-61-SF												
Allowance for empty and Underloaded Cars		Less than 40 Ms.		6	6	6	6	6	6	6	6	6	6
		40 Ms. to 50 Ms.		3	3	3	3	3	3	3	3	3	3
		More than 50 Ms.		0	0	0	0	0	0	0	0	0	0
				Helper 0.5 Yuma to East Yard Helper 1.0 Except Helper C-8, 9, 10 with Classes Mk-7, 8, 9 F-1, 4, 5; Mt-1,2,3,4,5 SP-1,2,3 Pembroke to Mohawk, Lava to Sentinel, Gila to Estrella	Double Kim to Mohawk	Double Saddle to Harqua							

SPECIAL INSTRUCTIONS—Concluded.

RATING OF LOCOMOTIVES—TUCSON DIVISION—Continued

IN Ms OF 1,000 LBS. BACK OF TENDER

Nominal Class	OFFICIAL CLASS	ENGINE NUMBERS	Boiler Pressure	EASTWARD				WESTWARD					EASTWARD					WESTWARD				
				Tucson-Mescal	Benson-Dragoon San Simon Steins	Mescal-Benson Dragoon-Willcox Raso-San Simon Steins-Conrad Pyra-Lordsburg	Willcox-Raso Conrad-Pyra	Lordsburg-Pyra	Pyra-Mondel Steins-San Simon Raso-2 M. E. Cochise Dragoon-Benson Mescal-Tucson	San Simon Bowie	Bowie-Raso 2 M. E. Cochise-Dragoon	Mondel-Steins Benson-Mescal	Bowie-San Carlos	San Carlos Cutter	Cutter-Pinal	Pinal-Globe	Globe-Miami	Miami-Globe	Globe-Pinal	Pinal-San Carlos	San Carlos Tanque	Tanque-Bowie
				Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single
T-36	T-63 20/26 118	2102 to 2104	190	1500	1150	6000	2250	2500	6000	2800	1700	1150	2850	1750	750	5000	1150	800	750	5000	2400	1900
T-37	T-70 24/28 146-S	2105, 2106	175	2000	1550	6000	3000	3350	6000	3750	2300	1550	3700	2250	950	6000	1500	1050	950	6000	3150	2400
C-9, 10	C-57 22/30 200-SF	2513 to 2599 2698 to 2860	210	2500	1950	8000	3750	4150	8000	4650	2900	1950	4900	3000	1310	8000	2000	1400	1310	8000	4170	3220
C-9, 10	C-57 22/30 194-S																					
C-8	C-57 22/30 192-S																					
TW- 3	TW-50 20/26 120	2932 to 2945	170	1600	1250	6000	2400	2650	6000	2950	1850	1250	3200	1950	850	7000	1300	900	850	7000	2700	2100
C-19	C-57 22½/28 178-S	3410 to 3426	200	2400	1900	8000	3600	4000	8000	4450	2750	1900	4500	2750	1200	8000	1850	1300	1200	8000	3850	3000
P-12	P-73 27/28 189-SF	3120 to 3129	190	2600	2000	8000	3900	4350	8000	4900	3000	2000	4850	2980	1300	8000	1980	1390	1300	8000	4100	3200
Mk-5, 6	Mk-63 26/28 210-S	3241 to 3277	210	3150	2450	8000	4700	5250	8000	5850	3650	2450										
Mk-5, 6	Mk-63 26/28 210-SF																					
Mk-7, 8, 9	Mk-63 29/30 247-S	3300 to 3324	176	3500	2750	8000	5200	5800	8000	6500	4000	2750										
Mk-7, 8, 9	Mk-63 29/30 257-SF																					
F-1	F-63 27½/32 273-S	3600 to 3652	200	3700	2900	10000	5500	6100	10000	6850	4250	2900										
F-4, 5	F-63 29½/32 306/B-61SF	3668 to 3763	200	4750	3750	10000	7100	7850	10000	8800	5450	3750										
F-5	F-63 29½/32 306/B-62-SF	3764 to 3768																				
F-3	F-63 29½/32 307-S	3653 to 3667	200	4200	3300	10000	6300	7000	10000	7800	4850	3300										
Mt-1, 3, 4, 5	Mt-73 28/30 246/B-60-SF	4300 to 4376	210	3800	2950	10000	5650	6300	10000	7050	4350	2950										
Mt-2	Mt-73 29/30 262-SF	4385 to 4390	210	3550	2800	10000	5350	5950	10000	6700	4100	2800										
SP-1	SP-63 $\frac{25}{28-32}$ 316/B-60-SF	5000 to 5048	225	5350	4350	10000	8000	8850	10000	10000	6150	4350										
SP-2, 3	SP-63 $\frac{25}{28-32}$ 317/B-61-SF																					
	Allowance for empty and underloaded cars	Less than 40 M's		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		40 M's to 50 M's		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		More than 50 M's		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

These ratings include the total weight of train, exclusive of engine and tender, which the different class of locomotives will haul in each direction between the stations shown.

CLASS "C"—Consolidation
"T"—Ten-wheelers
"A"—Atlantic type
"M"—Moguls
"TW"—Twelve-wheelers
"Mk"—Mikado
"P"—Pacific type
"F"—2-10-2
"MT"—Mountain
"SP"—Southern Pacific

Example:—Consolidation engine having 57-inch drivers, cylinders 22-inch diameter and 30-inch stroke, and weighing 187,000 pounds on drivers:

$$\text{C-57}\frac{22}{30}187$$

ASSISTANT SUPERINTENDENT

J. C. GOODFELLOW

TRAINMASTERS

G. A. BAYS........................Yuma
E. E. WHEELER................Phoenix
J. J. COWIN......................Tucson
E. C. PEARCE................Lordsburg
MAX FIEDLER.....................Globe

TERMINAL TRAINMASTERS

A. F. CORKRAN...................Gila
H. W. MAXWELL...............Phoenix
W. L. MORAN...................Phoenix

CHIEF TRAIN DISPATCHER

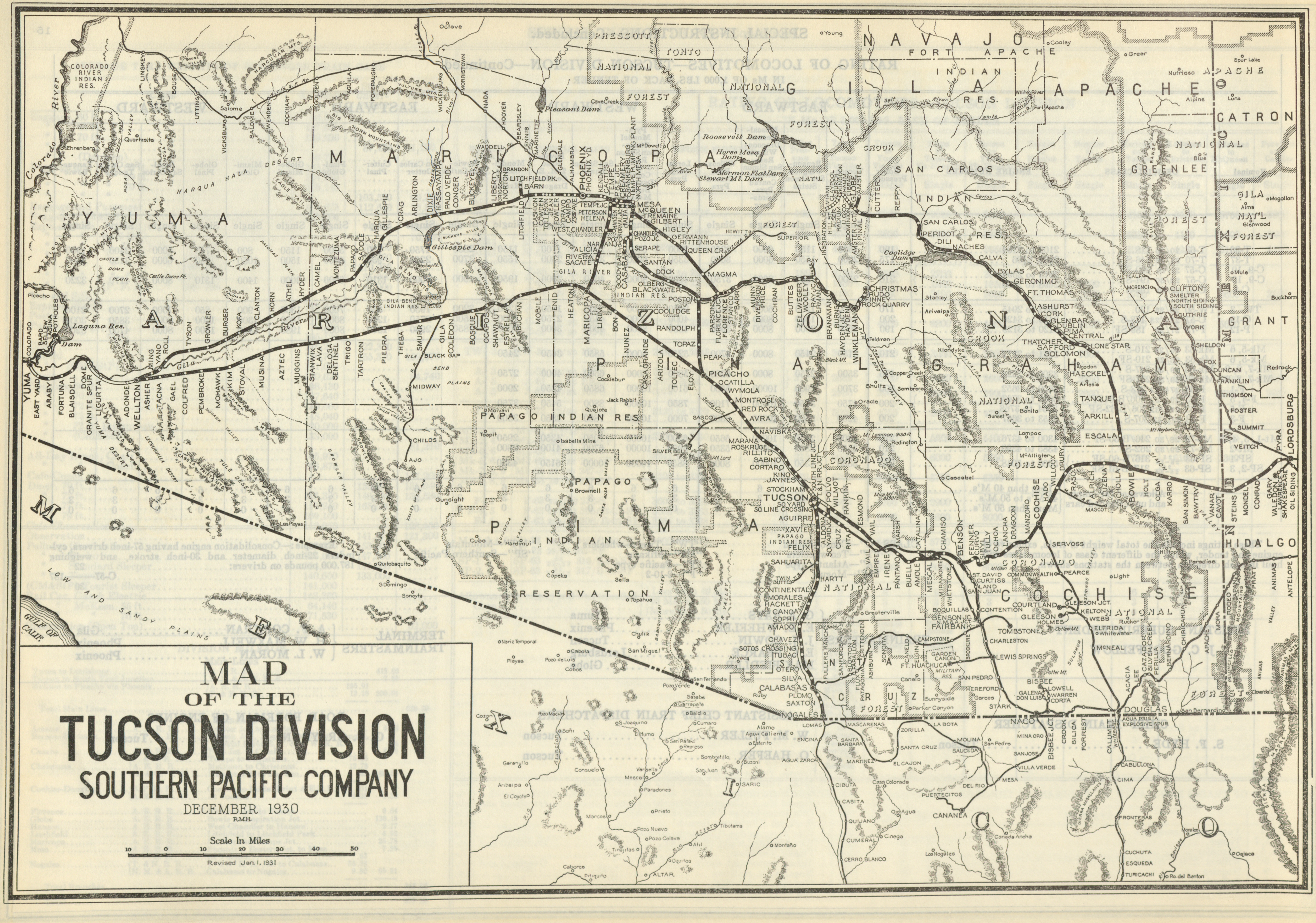
S. F. HYDE............................Tucson

ASSISTANT CHIEF TRAIN DISPATCHERS

W. M. FULLER.........................Tucson
O. HAEFER.............................Tucson

ROAD FOREMAN OF ENGINES

G. C. GRAYDON.....................Tucson



MAP OF THE

TUCSON DIVISION

SOUTHERN PACIFIC COMPANY

DECEMBER 1930

R.M.H.

Scale In Miles

Revised Jan. 1, 1931

10 0 10 20 30 40 50
YUMA
MARICOPA
ARIZONA
PIMA
PINAL
GILA
GRAHAM
GREENLEE
COCHISE
SANTA CRUZ
NAVAJO
APACHE
CATRON
GRANT
HIDALGO
NEW MEXICO
MEXICO
COLORADO RIVER INDIAN RES.
FORT APACHE INDIAN RES.
SAN CARLOS INDIAN RES.
GILA BEND INDIAN RES.
GILA RIVER INDIAN RES.
PAPAGO INDIAN RES.
PAPAGO INDIAN RESERVATION
TONTO NATIONAL FOREST
PRESCOTT NATIONAL FOREST
CROOK NATIONAL FOREST
CORONADO NATIONAL FOREST
GILA NAT'L FOREST
APACHE NAT'L FOREST
GULF OF CALIF.
LOW AND SANDY PLAINS
Colorado River
Gila River
Salt River
San Carlos River
Santa Cruz River
San Pedro River
Roosevelt Dam
Horse Mesa Dam
Mormon Flat Dam
Stewart Mt. Dam
Coolidge Dam
Gillespie Dam
Pleasant Dam
Laguna Res.
Laguna Dam
YUMA
EAST YARD
ARABY
FORTUNA
BLAISDELL
GRANITE SPUR
DOME
LIGURTA
ADONDE
WELLTON
ASHER
TACNA
MING
YANO
ROLL
GAEL
COLFRED
TYSON
PEMBROKE
GROWLER
MOHAWK
BURGER
KIM
KOFA
STOVAL
CLANTON
HORN
AZTEC
MUSINA
ATHEL
HYDER
MUGGINS
STANWIX
LAVA
CAMEL
DELOSA
SENTINEL
MONTEZUMA
TRIGO
PAPAGO
SADDLE
TARTRON
PIEDRA
HARQUA
GILLESPIE
THEBA
CRAG
SMURR
ARLINGTON
GILA
COLEDON
DIXIE
HASSAYAMPA
PALO VERDE
CONGER
BUCKEYE
BOSQUE
OCAPOS
SHAWMUT
ESTRELLA
BUCHAN
MOBILE
ENID
HEATON
MARICOPA
LIRIM
BON
NUNEZ
CASA GRANDE
ARIZOLA
TOLTEC
ELOY
PICACHO
OCATILLA
WYMOLA
MONTROSE
RED ROCK
AVRA
NAVISKA
MARANA
ROSKRUGE
RILLITO
SABINO
CORTARO
KINO
JAYNES
STOCKHAM
TUCSON
SO. YARD
SO. LINE CROSSING
AGUIRRE
XAVIER
FELIX
SAHUARITA
TWIN BUTTES
CONTINENTAL
MORALES
HACKETT
CANOA
SOPRI
AMADO
CHAVEZ
SOTOS CROSSING
TUBAC
OTERO
SILVA
CALABASAS
PLOMO
SAXTON
NOGALES
HARTT
BUELL
AMOLE
CATALINA
PANTANO
IRENE
EMPIRE
MESCAL
WHETSTONE
CHAMISO
BENSON
FENNER
CURVO
TULLY
OCHOA
LANCHA
DRAGOON
MANZORO
COCHISE
HADO
WILLCOX
DRURY
SERVOSS
PEARCE
SOUTH LINE JCT.
S.P.&N.R.R. JCT.
SO. SWITCH
POLVO
WILMOT
RANKIN
ESMOND
VAIL
CRUZ
RITA
ST. DAVID
CURTISS
LAND
SAN JUAN
BOQUILLAS
BENSON JCT.
FAIRBANK
CONTENTION
TOMBSTONE
CHARLESTON
LEWIS SPRINGS
HEREFORD
BISBEE
LOWELL
WARREN
CORTA
NACO
CAMPSTONE
GARDEN CANON
FT. HUACHUCA
COURTLAND
GLEESON
GLEESON JCT.
KELTON
WEBB
HOLMES
ELFRIDA
DOUGLAS
AGUA PRIETA
EXPLOSIVE SPUR
ACACIA
LEE
PERILLA
ROBINSON
STARK
RIVERA
SACATE
ALICIA
NARANJO
POZO
SERAPE
SANTAN
DOCK
OLBERG
BLACKWATER
POSTON
COOLIDGE
RANDOLPH
TOPAZ
PEAK
CHANDLER
POZO JCT.
WEST CHANDLER
MESA
McQUEEN
TREMAINE
GILBERT
HIGLEY
GERMANN
RITTENHOUSE
QUEEN CR.
MAGMA
FLORENCE
PARSONS
MUNN
DIVERSION
PRICE
COCHRAN
BUTTES
ZELLWEGER
WOOLEY
KELVIN
BRANAMAN
BURNS
HAYDEN JCT.
WINKLEMAN
CHRISTMAS
DUDO
FINNEY
ROCK QUARRY
SUPERIOR
RAY
FOREST
HEWITT
CUTTER
REPPY
SAN CARLOS
PERIDOT
DILI
NACHES
CALVA
BYLAS
GERONIMO
FT. THOMAS
ASHURST
GLENBAR
DUBLIN
CORK
CENTRAL
THATCHER
SAFFORD
SOLOMON
LONE STAR
HAECKEL
TANQUE
ARKILL
ESCALA
CLIFTON
SMELTER
NORTH SIDING
SOUTH SIDING
GUTHRIE
YORK
SHELDON
FOX
DUNCAN
FRANKLIN
THOMSON
FOSTER
SUMMIT
VEITCH
LORDSBURG
PYRA
OIL SIDING
SHAKESPEARE
GARY
VALEDON
CONRAD
MONDEL
STEINS
VANAR
CAVOT
SAN SIMON
BAWTRY
KARRO
OLGA
HOLT
BOWIE
SHEDD
LUZENA
ALRICH
FRASO
PHOENIX
PHOENIX YD.
TEMPE JCT.
TEMPE
KENDALL
CACTUS
COLDWATER
PETERSON
HELENA
LITCHFIELD
LITCHFIELD PK.
BARN
BRANDON
LIBERTY
NORTON
TOLLESON
FOWLER
CASHION
ALHAMBRA
GLENDALE
MARINETTE
BEARDSLEY
HOOVER
NADA
WADDELL
WICKENBURG
MORRISTOWN
FOREPAUGH
AGUILA
GOLDEN
LOCKHART
WENDEN
SALOME
VICKSBURG
UTTING
BOUSE
LINSKEY
Quartzsite
Ehrenberg
Picacho
COLORADO
BARD
SELSOAN
LAGUNA
POTHOLES
HARQUA HALA DESERT
CASTLE DOME PLAIN
GILA BEND MTS.
BLACK GAP
MIDWAY
CHILDS
AJO
Gunsight
Sells
Topahua
Coolebur
Quajote
Jack Rabbit
Brownell
Silver Bell
Mt. Lemmon 9150 Ft.
Oracle
Redington
Greaterville
Ruby
Sasabe
Lomas
Cananea
Magdalena
Santa Cruz
Naco
Bisbee Jct.
Mina Oro
Molina
Zorilla
La Bota
Mascarenas
Encina
Agua Zarca
Cabullona
Cima
Fronteras
Esqueda
Cuchuta
Turicachi
Octave
Young
Cooley
Greer
Alpine
Luna
Spur Lake
Nutrioso
Mogollon
Alma
Glenwood
Redrock
Buckhorn
Animas
Antelope
Hilltop
Paradise
Light
Cloverdale
San Bernardino